

FIRE JUNGLE

CAPS-aligned mathematics for South African learners



GRADE 1

Mathematics

TEXTBOOK

Definitions • Worked Examples • Exercises • Full Answers



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by Joseph Matthew Mitchell

Fire Jungle Grade 1 Mathematics

A CAPS-aligned study textbook for the FET phase

Author Joseph Matthew Mitchell

Publisher Fire Jungle — TsukaMath

Digital edition https://firejungle.com/math/TsukaMath_G1.php

Edition 2026

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How to use this book

Definitions. Each topic opens with the key terms you must know and be able to state in an exam.

Key formulas. The formulas and rules for the topic, gathered in one box for quick revision.

Worked examples. Fully solved problems. The right-hand notes explain the reason for every step.

Exercises. Practice questions. Try them before checking the back of the book.

Answers. Complete answers with working are collected in the Answers section at the end.

Digital edition. Scan the QR code on any page to open the interactive version of this textbook, with animated lessons, narration and unlimited generated practice.

Tip: work through the worked examples with a pen in hand, then attempt the exercises with the book closed. Use the digital edition for extra randomised practice on any topic you find hard.



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CHAPTER 1

Counting and Number Patterns

- Counting** Counting up to 10
- Count** Counting before
- Counting** Counting to 20
- Counting** Counting to 100
- Skip-counting** Skip-counting by 2s
- Skip-counting** Skip-counting by 5s
- Skip-counting** Skip-counting by 10s
- Even** Even and odd
- Number** Number lines
- Ordinal** Ordinal numbers
- Numbers** Numbers in words
- Roman** Roman numerals



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Counting up to 10



count to 10

DEFINITIONS

Counting on	Saying the next number, one more.
After	The number that comes next.

KEY FORMULAS

- **Next number = number + 1**
- **After 5 comes 6**

WORKED EXAMPLES

Example 1: What comes after 5?

- Add 1 to find the next number.

Count on.

- $5 + 1 = 6$.

Add one.

- **6.**

Final answer.

EXERCISES (EASY → DIFFICULT)

1. What number comes after 2?
2. What number comes after 7?
3. What number comes after 3?
4. What number comes after 6?
5. What number comes after 9?
6. What number comes after 4?
7. What number comes after 5?
8. What number comes after 1?
9. What number comes after 8?



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Count before a number

Counting before



count to 10

DEFINITIONS

Before

The number that comes just in front, one less.

KEY FORMULAS

- Number before = number – 1
- Before 6 comes 5

WORKED EXAMPLES

Example 1: What comes before 6?

- Go back by 1.

Count back.

- $6 - 1 = 5$.

Take one away.

- **5.**

Final answer.

EXERCISES (EASY → DIFFICULT)

1. What number comes before 6?
2. What number comes before 8?
3. What number comes before 2?
4. What number comes before 7?
5. What number comes before 4?
6. What number comes before 3?
7. What number comes before 5?
8. What number comes before 10?
9. What number comes before 9?



DIGITAL TEXTBOOK

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Counting to 20



count to 20

DEFINITIONS

Teen numbers The numbers from 11 to 19.

KEY FORMULAS

- **Next number = number + 1**
- **After 14 comes 15**

WORKED EXAMPLES

Example 1: What comes after 14?

- Counting goes 11, 12, 13, 14 ...

Past ten.

- $14 + 1 = 15$.

Add one.

- **15.**

Final answer.

EXERCISES (EASY → DIFFICULT)

1. What number comes after 12?
2. What number comes after 14?
3. What number comes after 16?
4. What number comes after 13?
5. What number comes after 17?
6. What number comes after 11?
7. What number comes after 19?
8. What number comes after 18?
9. What number comes after 15?



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Counting to 100



count to 100

DEFINITIONS

Counting on Adding one to get the next number.

KEY FORMULAS

- **Next number = number + 1**
- **After 49 comes 50**

WORKED EXAMPLES

Example 1: What comes after 49?

- Add 1 to find the next number.

Count on.

- $49 + 1 = 50$.

Add one.

- **50.**

Final answer.

EXERCISES (EASY → DIFFICULT)

1. What number comes after 76?
2. What number comes after 89?
3. What number comes after 74?
4. What number comes after 99?
5. What number comes after 53?
6. What number comes after 86?
7. What number comes after 90?
8. What number comes after 51?
9. What number comes after 84?
10. What number comes after 48?

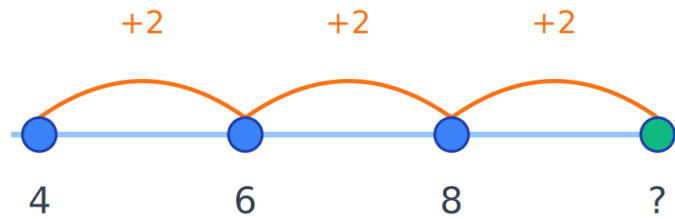


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Skip-counting by 2s



jump +2 each time

next: $8 + 2 = 10$

DEFINITIONS

Skip-count

Counting in jumps of the same size.

KEY FORMULAS

- **Add 2 each time:** 2, 4, 6, 8...

WORKED EXAMPLES

Example 1: 4, 6, 8, __

- We add 2 each time.

The jump.

- $8 + 2 = 10$.

Add 2.

- **10.**

Final answer.

EXERCISES (EASY → DIFFICULT)

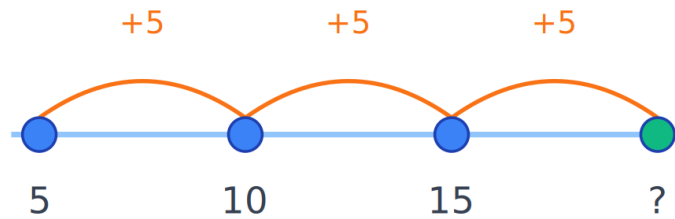
1. Skip-count by 2: 4, 6, 8, __
2. Skip-count by 2: 12, 14, 16, __
3. Skip-count by 2: 6, 8, 10, __
4. Skip-count by 2: 10, 12, 14, __
5. Skip-count by 2: 14, 16, 18, __
6. Skip-count by 2: 2, 4, 6, __
7. Skip-count by 2: 0, 2, 4, __
8. Skip-count by 2: 8, 10, 12, __
9. Skip-count by 2: 16, 18, 20, __

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Skip-counting by 5s



jump +5 each time

next: $15 + 5 = 20$

DEFINITIONS

Skip-count by 5 Counting in jumps of five.

KEY FORMULAS

- **Add 5 each time:** 5, 10, 15, 20...
- **Answers end in 0 or 5**

WORKED EXAMPLES

Example 1: 5, 10, 15, __

- We add 5 each time.

The jump.

- $15 + 5 = 20$.

Add 5.

- **20.**

Final answer.

EXERCISES (EASY → DIFFICULT)

1. Skip-count by 5: 15, 20, 25, __
2. Skip-count by 5: 10, 15, 20, __
3. Skip-count by 5: 0, 5, 10, __
4. Skip-count by 5: 5, 10, 15, __
5. Skip-count by 5: 20, 25, 30, __

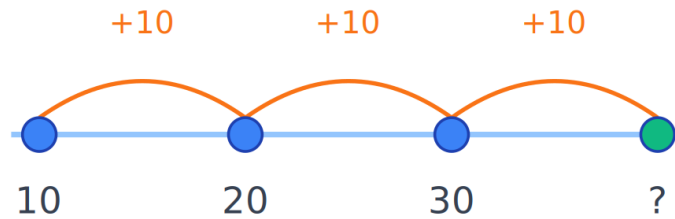


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Skip-counting by 10s



jump +10 each time

next: $30 + 10 = 40$

DEFINITIONS

Skip-count by 10 Counting in jumps of ten.

KEY FORMULAS

- **Add 10 each time:** 10, 20, 30, 40...

WORKED EXAMPLES

Example 1: 10, 20, 30, __

- We add 10 each time.

The jump.

- $30 + 10 = 40$.

Add 10.

- **40.**

Final answer.

EXERCISES (EASY → DIFFICULT)

1. Skip-count by 10: 30, 40, 50, __
2. Skip-count by 10: 40, 50, 60, __
3. Skip-count by 10: 20, 30, 40, __
4. Skip-count by 10: 10, 20, 30, __
5. Skip-count by 10: 0, 10, 20, __
6. Skip-count by 10: 50, 60, 70, __



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Even or odd numbers

Even and odd



pairs with none left over = EVEN

even & odd

DEFINITIONS

Even A number that ends in 0, 2, 4, 6 or 8.

Odd A number that ends in 1, 3, 5, 7 or 9.

KEY FORMULAS

- **Even ends in:** 0, 2, 4, 6, 8
- **Odd ends in:** 1, 3, 5, 7, 9

WORKED EXAMPLES

Example 1: Is 6 even or odd?

- Look at the last digit: 6.

Check the end.

- 6 is in the even list.

0, 2, 4, 6, 8.

- **even.**

Final answer.

EXERCISES (EASY → DIFFICULT)

1. Is 27 even or odd?
2. Is 9 even or odd?
3. Is 17 even or odd?
4. Is 13 even or odd?
5. Is 19 even or odd?
6. Is 1 even or odd?
7. Is 3 even or odd?
8. Is 8 even or odd?
9. Is 23 even or odd?
10. Is 21 even or odd?



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Number lines to 20



number line

DEFINITIONS

Number line A line with numbers in order, going up by 1.

KEY FORMULAS

- Each step right = +1
- The missing number is one more than the one before it

WORKED EXAMPLES

Example 1: 4, 5, __, 7

- Numbers go up by 1.

Number line.

- After 5 comes 6.

Add one.

- **6.**

Final answer.

EXERCISES (EASY → DIFFICULT)

1. On a number line: 7, 8, __, 10
2. On a number line: 16, 17, __, 19
3. On a number line: 13, 14, __, 16
4. On a number line: 8, 9, __, 11
5. On a number line: 15, 16, __, 18
6. On a number line: 4, 5, __, 7
7. On a number line: 6, 7, __, 9
8. On a number line: 11, 12, __, 14
9. On a number line: 10, 11, __, 13
10. On a number line: 17, 18, __, 20



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Ordinal numbers (1st-10th)



DEFINITIONS

Ordinal number A position word: 1st, 2nd, 3rd...

KEY FORMULAS

- **1=1st, 2=2nd, 3=3rd**, then add 'th': 4th, 5th...

WORKED EXAMPLES

Example 1: What is the position word for 3?

- Position words: 1st, 2nd, 3rd.

In order.

- 3 is written as 3rd.

Third.

- **3rd.**

Final answer.

EXERCISES (EASY → DIFFICULT)

1. What is the position word for 5?
2. What is the position word for 1?
3. What is the position word for 6?
4. What is the position word for 3?
5. What is the position word for 4?
6. What is the position word for 7?
7. What is the position word for 9?
8. What is the position word for 8?
9. What is the position word for 2?
10. What is the position word for 10?



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Numbers in words (0-20)

23 = twenty-three

numbers in words

DEFINITIONS

Number name A number written with words instead of digits.

KEY FORMULAS

- 1=one, 2=two, 3=three...
- 11=eleven, 12=twelve, 13=thirteen...

WORKED EXAMPLES

Example 1: Write 7 in words.

- 7 has its own word.

Number name.

- 7 is 'seven'.

Say it.

- **seven.**

Final answer.



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Roman numerals (I, V, X)

I=1 V=5 X=10 L=50

Roman numerals

DEFINITIONS

Roman numeral

Old letters used as numbers: I, V, X.

KEY FORMULAS

- **I = 1, V = 5, X = 10**
- **Examples:** II=2, III=3, VII=7

WORKED EXAMPLES

Example 1: What is the Roman numeral for 3?

- I means 1.

Build it.

- 3 is I, I, I → III.

Three ones.

- **III.**

Final answer.

EXERCISES (EASY → DIFFICULT)

1. What is the Roman numeral for 5?
2. What is the Roman numeral for 3?
3. What is the Roman numeral for 1?
4. What is the Roman numeral for 10?
5. What is the Roman numeral for 8?
6. What is the Roman numeral for 4?
7. What is the Roman numeral for 9?
8. What is the Roman numeral for 7?
9. What is the Roman numeral for 6?
10. What is the Roman numeral for 2?



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End of Chapter 1 — Mixed Exercise

Ten questions across the whole chapter, from easy to difficult.

1. What number comes after 2?
2. What number comes before 8?
3. What number comes after 16?
4. What number comes after 99?
5. Skip-count by 2: 14, 16, 18, __
6. Skip-count by 5: 20, 25, 30, __
7. Skip-count by 10: 50, 60, 70, __
8. Is 8 even or odd?
9. On a number line: 10, 11, __, 13
10. What is the position word for 10?



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CHAPTER 2

Understanding Addition

Add Adding with pictures

Adding Adding 0

Adding Adding 1

Add Doubles



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Add with pictures

Adding with pictures



$$3 + 2 = 5$$

count them all together

DEFINITIONS

Add	Put two groups together to find how many in all.
In total	How many altogether.

KEY FORMULAS

- Count both groups, then count them all
- $3 + 2 = 5$

WORKED EXAMPLES

Example 1: 3 apples + 2 apples = ?

- Count the first group: 3.

Start here.

- Count on 2 more: 4, 5.

Add them.

- 5.

Final answer.

EXERCISES (EASY → DIFFICULT)

1. 2 apples + 3 apples = ?
2. 3 apples + 5 apples = ?
3. 3 apples + 1 apples = ?
4. 4 apples + 2 apples = ?
5. 2 apples + 4 apples = ?
6. 1 apples + 5 apples = ?
7. 3 apples + 3 apples = ?



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8. 1 apples + 4 apples = ?

9. 2 apples + 1 apples = ?

10. 5 apples + 1 apples = ?

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Adding 0


$$3 + 4 = 7$$

$$3 + 4 = 7$$

DEFINITIONS

Zero

Nothing. Adding 0 changes nothing.

KEY FORMULAS

- $a + 0 = a$
- Adding nothing keeps the number the same

WORKED EXAMPLES

Example 1: $5 + 0 = ?$

- Adding 0 means adding nothing.

No change.

- $5 + 0 = 5$.

Same number.

- **5.**

Final answer.

EXERCISES (EASY → DIFFICULT)

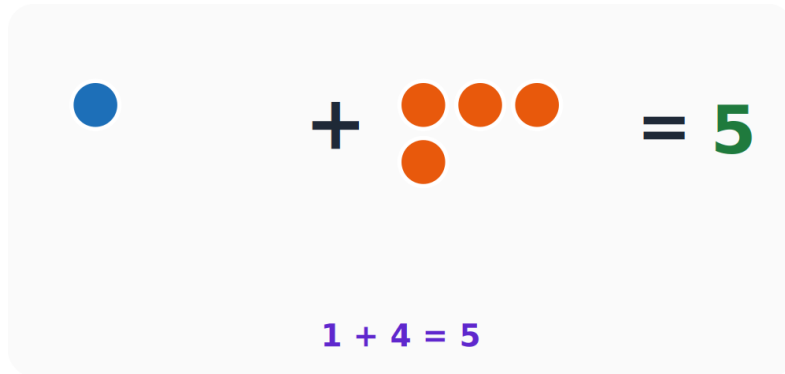
1. $8 + 0 = ?$
2. $3 + 0 = ?$
3. $4 + 0 = ?$
4. $6 + 0 = ?$
5. $5 + 0 = ?$
6. $2 + 0 = ?$
7. $1 + 0 = ?$
8. $7 + 0 = ?$
9. $9 + 0 = ?$

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Adding 1


$$1 + 4 = 5$$

DEFINITIONS

Add 1

The next number, one more.

KEY FORMULAS

- $a + 1 = \text{next number}$
- $5 + 1 = 6$

WORKED EXAMPLES

Example 1: $5 + 1 = ?$

- Adding 1 means count up by 1.

Next number.

- After 5 comes 6.

Count on.

- **6.**

Final answer.

EXERCISES (EASY → DIFFICULT)

1. $0 + 1 = ?$
2. $8 + 1 = ?$
3. $6 + 1 = ?$
4. $9 + 1 = ?$
5. $7 + 1 = ?$
6. $1 + 1 = ?$
7. $5 + 1 = ?$
8. $2 + 1 = ?$
9. $4 + 1 = ?$
10. $3 + 1 = ?$

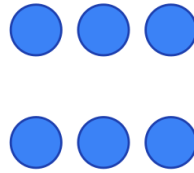


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Add doubles to 10



$$3 + 3 = 6$$

the same number twice

DEFINITIONS

Double

The same number added to itself.

KEY FORMULAS

- $a + a = \text{double}$
- $3 + 3 = 6$

WORKED EXAMPLES

Example 1: $3 + 3 = ?$

- A double is the same number twice.

Same + same.

- $3 + 3 = 6$.

Add.

- **6.**

Final answer.

EXERCISES (EASY → DIFFICULT)

1. $1 + 1 = ?$
2. $5 + 5 = ?$
3. $3 + 3 = ?$
4. $4 + 4 = ?$
5. $2 + 2 = ?$

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End of Chapter 2 — Mixed Exercise

Ten questions across the whole chapter, from easy to difficult.

1. 2 apples + 3 apples = ?
2. $3 + 0 = ?$
3. $6 + 1 = ?$
4. $4 + 4 = ?$
5. 2 apples + 4 apples = ?
6. $2 + 0 = ?$
7. $5 + 1 = ?$
8. $2 + 2 = ?$
9. 2 apples + 1 apples = ?
10. $9 + 0 = ?$



**CHAPTER 3**

Addition Skill Builders

Adding Adding 2

Adding Adding 3

Adding Adding 4

Adding Adding 5

Adding Adding 6

Adding Adding 7

Adding Adding 8

Adding Adding 9

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Adding 2


$$2 + 4 = 6$$

$$2 + 4 = 6$$

DEFINITIONS

Count on

Start at a number and count 2 more.

KEY FORMULAS

- $a + 2 = \text{count on } 2$
- **Start at the number, jump 2 forward**

WORKED EXAMPLES

Example 1: $4 + 2 = ?$

- Start at 4.

First number.

- Count on 2 more: $4 + 2 = 6$.

Jump forward.

- **6.**

Final answer.

EXERCISES (EASY → DIFFICULT)

1. $5 + 2 = ?$
2. $2 + 2 = ?$
3. $9 + 2 = ?$
4. $4 + 2 = ?$
5. $10 + 2 = ?$
6. $3 + 2 = ?$
7. $6 + 2 = ?$
8. $8 + 2 = ?$
9. $0 + 2 = ?$
10. $7 + 2 = ?$



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Adding 3


$$3 + 4 = 7$$

$$3 + 4 = 7$$

DEFINITIONS

Count on

Start at a number and count 3 more.

KEY FORMULAS

- $a + 3 = \text{count on } 3$
- **Start at the number, jump 3 forward**

WORKED EXAMPLES

Example 1: $4 + 3 = ?$

- Start at 4.

First number.

- Count on 3 more: $4 + 3 = 7$.

Jump forward.

- 7.

Final answer.

EXERCISES (EASY → DIFFICULT)

1. $0 + 3 = ?$
2. $9 + 3 = ?$
3. $3 + 3 = ?$
4. $4 + 3 = ?$
5. $1 + 3 = ?$
6. $5 + 3 = ?$
7. $6 + 3 = ?$
8. $10 + 3 = ?$
9. $7 + 3 = ?$
10. $2 + 3 = ?$



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Adding 4


$$4 + 4 = 8$$

$$4 + 4 = 8$$

DEFINITIONS

Count on

Start at a number and count 4 more.

KEY FORMULAS

- $a + 4 = \text{count on } 4$
- **Start at the number, jump 4 forward**

WORKED EXAMPLES

Example 1: $4 + 4 = ?$

- Start at 4.

First number.

- Count on 4 more: $4 + 4 = 8$.

Jump forward.

- **8.**

Final answer.

EXERCISES (EASY → DIFFICULT)

1. $9 + 4 = ?$
2. $0 + 4 = ?$
3. $4 + 4 = ?$
4. $2 + 4 = ?$
5. $7 + 4 = ?$
6. $3 + 4 = ?$
7. $6 + 4 = ?$
8. $8 + 4 = ?$
9. $10 + 4 = ?$
10. $5 + 4 = ?$



DIGITAL TEXTBOOK

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Adding 5

$$5 + 4 = 9$$

$$5 + 4 = 9$$

DEFINITIONS

Count on

Start at a number and count 5 more.

KEY FORMULAS

- $a + 5 = \text{count on } 5$
- **Start at the number, jump 5 forward**

WORKED EXAMPLES

Example 1: $4 + 5 = ?$

- Start at 4.

First number.

- Count on 5 more: $4 + 5 = 9$.

Jump forward.

- **9.**

Final answer.

EXERCISES (EASY → DIFFICULT)

1. $9 + 5 = ?$
2. $3 + 5 = ?$
3. $8 + 5 = ?$
4. $0 + 5 = ?$
5. $7 + 5 = ?$
6. $5 + 5 = ?$
7. $6 + 5 = ?$
8. $10 + 5 = ?$
9. $2 + 5 = ?$
10. $1 + 5 = ?$



DIGITAL TEXTBOOK

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Adding 6


$$5 + 4 = 9$$

$$5 + 4 = 9$$

DEFINITIONS

Count on

Start at a number and count 6 more.

KEY FORMULAS

- $a + 6 = \text{count on } 6$
- **Start at the number, jump 6 forward**

WORKED EXAMPLES

Example 1: $4 + 6 = ?$

- Start at 4.

First number.

- Count on 6 more: $4 + 6 = 10$.

Jump forward.

- **10.**

Final answer.

EXERCISES (EASY → DIFFICULT)

1. $5 + 6 = ?$
2. $8 + 6 = ?$
3. $1 + 6 = ?$
4. $0 + 6 = ?$
5. $3 + 6 = ?$
6. $2 + 6 = ?$
7. $7 + 6 = ?$
8. $10 + 6 = ?$
9. $9 + 6 = ?$
10. $4 + 6 = ?$



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Adding 7


$$5 + 4 = 9$$

$$5 + 4 = 9$$

DEFINITIONS

Count on

Start at a number and count 7 more.

KEY FORMULAS

- $a + 7 = \text{count on } 7$
- **Start at the number, jump 7 forward**

WORKED EXAMPLES

Example 1: $4 + 7 = ?$

- Start at 4.

First number.

- Count on 7 more: $4 + 7 = 11$.

Jump forward.

- **11.**

Final answer.

EXERCISES (EASY → DIFFICULT)

1. $7 + 7 = ?$
2. $10 + 7 = ?$
3. $5 + 7 = ?$
4. $1 + 7 = ?$
5. $4 + 7 = ?$
6. $9 + 7 = ?$
7. $0 + 7 = ?$
8. $3 + 7 = ?$
9. $8 + 7 = ?$
10. $2 + 7 = ?$



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Adding 8

A visual representation of the addition 5 + 4 = 9. On the left, there are 5 blue dots arranged in two rows of two with one dot to the right. In the middle is a plus sign. To the right of the plus sign are 4 orange dots arranged in two rows of two. To the right of the orange dots is an equals sign followed by the number 9.

$$5 + 4 = 9$$

DEFINITIONS

Count on

Start at a number and count 8 more.

KEY FORMULAS

- $a + 8 = \text{count on } 8$
- **Start at the number, jump 8 forward**

WORKED EXAMPLES

Example 1: $4 + 8 = ?$

- Start at 4.

First number.

- Count on 8 more: $4 + 8 = 12$.

Jump forward.

- **12.**

Final answer.

EXERCISES (EASY → DIFFICULT)

1. $4 + 8 = ?$
2. $2 + 8 = ?$
3. $5 + 8 = ?$
4. $0 + 8 = ?$
5. $10 + 8 = ?$
6. $8 + 8 = ?$
7. $9 + 8 = ?$
8. $1 + 8 = ?$
9. $3 + 8 = ?$
10. $6 + 8 = ?$

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Adding 9


$$5 + 4 = 9$$

$$5 + 4 = 9$$

DEFINITIONS

Count on

Start at a number and count 9 more.

KEY FORMULAS

- $a + 9 = \text{count on } 9$
- **Start at the number, jump 9 forward**

WORKED EXAMPLES

Example 1: $4 + 9 = ?$

- Start at 4.

First number.

- Count on 9 more: $4 + 9 = 13$.

Jump forward.

- **13.**

Final answer.

EXERCISES (EASY → DIFFICULT)

1. $7 + 9 = ?$
2. $5 + 9 = ?$
3. $2 + 9 = ?$
4. $0 + 9 = ?$
5. $6 + 9 = ?$
6. $1 + 9 = ?$
7. $8 + 9 = ?$
8. $3 + 9 = ?$
9. $10 + 9 = ?$
10. $9 + 9 = ?$



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End of Chapter 3 — Mixed Exercise

Ten questions across the whole chapter, from easy to difficult.

1. $5 + 2 = ?$
2. $9 + 3 = ?$
3. $4 + 4 = ?$
4. $0 + 5 = ?$
5. $3 + 6 = ?$
6. $9 + 7 = ?$
7. $9 + 8 = ?$
8. $3 + 9 = ?$
9. $0 + 2 = ?$
10. $2 + 3 = ?$





CHAPTER 4

Addition

- Sums** Adding to 10
- Sums** Adding to 20
- Add** Adding three numbers
- Add** Adding tens
- Find** Missing number
- Word** Addition word problems





Sums up to 10

Adding to 10

$$5 + 4 = 9$$

DEFINITIONS

Sum

The answer when you add numbers.

KEY FORMULAS

- Count on the second number
- $6 + 3 = 9$

WORKED EXAMPLES

Example 1: $6 + 3 = ?$

- Start at 6.

First number.

- Count on 3: 7, 8, 9.

Add.

- **9.**

Final answer.

EXERCISES (EASY → DIFFICULT)

1. $6 + 0 = ?$
2. $5 + 3 = ?$
3. $7 + 2 = ?$
4. $0 + 3 = ?$
5. $7 + 1 = ?$
6. $3 + 5 = ?$
7. $4 + 4 = ?$
8. $0 + 8 = ?$
9. $8 + 0 = ?$
10. $3 + 0 = ?$



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Sums up to 20

Adding to 20

$$5 + 4 = 9$$

DEFINITIONS

Sum

The total when you add numbers.

KEY FORMULAS

- Count on the second number
- $12 + 5 = 17$

WORKED EXAMPLES

Example 1: $12 + 5 = ?$

► Start at 12.

First number.

► Count on 5: 13, 14, 15, 16, 17.

Add.

► **17.**

Final answer.

EXERCISES (EASY → DIFFICULT)

1. $8 + 9 = ?$
2. $15 + 3 = ?$
3. $10 + 3 = ?$
4. $5 + 1 = ?$
5. $7 + 6 = ?$
6. $14 + 2 = ?$
7. $14 + 5 = ?$
8. $7 + 12 = ?$
9. $11 + 6 = ?$
10. $13 + 3 = ?$

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Add three numbers

Adding three numbers

$$\bullet \bullet \bullet + \bullet \bullet \bullet \bullet = 7$$

$$3 + 4 = 7$$

DEFINITIONS

Add in steps Add two numbers first, then add the third.

KEY FORMULAS

- Add two, then add the third
- $2 + 3 + 1$: first $2+3=5$, then $5+1=6$

WORKED EXAMPLES

Example 1: $2 + 3 + 1 = ?$

► Add the first two: $2 + 3 = 5$.

First pair.

► Add the third: $5 + 1 = 6$.

Then the rest.

► **6.**

Final answer.

EXERCISES (EASY → DIFFICULT)

1. $3 + 4 + 3 = ?$
2. $2 + 4 + 1 = ?$
3. $3 + 5 + 4 = ?$
4. $1 + 2 + 2 = ?$
5. $1 + 5 + 5 = ?$
6. $2 + 4 + 4 = ?$
7. $3 + 4 + 1 = ?$
8. $5 + 4 + 3 = ?$
9. $2 + 5 + 1 = ?$
10. $4 + 5 + 1 = ?$



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Add tens

Adding tens


$$3 + 4 = 7$$

$$3 + 4 = 7$$

DEFINITIONS

Tens

Numbers that end in 0, like 20, 30.

KEY FORMULAS

- Add the tens digits, then add a 0
- $30 + 40 = 70$

WORKED EXAMPLES

Example 1: $30 + 40 = ?$

- Think $3 + 4 = 7$.

Just the tens.

- Put back the 0: 70.

Add a zero.

- **70.**

Final answer.

EXERCISES (EASY → DIFFICULT)

1. $50 + 20 = ?$
2. $10 + 90 = ?$
3. $40 + 40 = ?$
4. $40 + 30 = ?$
5. $90 + 10 = ?$
6. $30 + 60 = ?$
7. $40 + 80 = ?$
8. $60 + 20 = ?$
9. $70 + 70 = ?$
10. $90 + 50 = ?$



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Find the missing addend

Missing number

$$3 + 4 = 7$$

$$3 + 4 = 7$$

DEFINITIONS

Missing addend

The number we need to add to reach the total.

KEY FORMULAS

- Missing number = total – known part
- If $3 + ? = 8$, then $? = 8 - 3 = 5$

WORKED EXAMPLES

Example 1: $3 + ? = 8$

- We need a number that adds to 3 to make 8.

Find the gap.

- $8 - 3 = 5$.

Subtract.

- 5.

Final answer.

EXERCISES (EASY → DIFFICULT)

1. $9 + ? = 10$
2. $6 + ? = 6$
3. $3 + ? = 3$
4. $3 + ? = 7$
5. $2 + ? = 5$
6. $3 + ? = 9$
7. $5 + ? = 5$
8. $1 + ? = 7$
9. $5 + ? = 8$
10. $2 + ? = 6$



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Word problems: addition

Addition word problems

$$3 + 2 = 5$$

DEFINITIONS

Gets more

Words that mean add — the amount goes up.

KEY FORMULAS

- 'Gets more' means add
- Total = start + more

WORKED EXAMPLES

Example 1: Sam has 4 stickers. He gets 3 more. How many in total?

- ▶ 'Gets more' means add.

Amount goes up.

- ▶ $4 + 3 = 7$.

Add.

- ▶ **7.**

Final answer.

EXERCISES (EASY → DIFFICULT)

1. Sam has 2 stickers. He gets 2 more. How many in total?
2. Sam has 4 stickers. He gets 5 more. How many in total?
3. Sam has 3 stickers. He gets 5 more. How many in total?
4. Sam has 5 stickers. He gets 3 more. How many in total?
5. Sam has 3 stickers. He gets 7 more. How many in total?
6. Sam has 2 stickers. He gets 5 more. How many in total?
7. Sam has 6 stickers. He gets 5 more. How many in total?
8. Sam has 7 stickers. He gets 4 more. How many in total?
9. Sam has 2 stickers. He gets 6 more. How many in total?
10. Sam has 6 stickers. He gets 3 more. How many in total?



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End of Chapter 4 — Mixed Exercise

Ten questions across the whole chapter, from easy to difficult.

1. $6 + 0 = ?$
2. $15 + 3 = ?$
3. $3 + 5 + 4 = ?$
4. $40 + 30 = ?$
5. $2 + ? = 5$
6. Sam has 2 stickers. He gets 5 more. How many in total?
7. $4 + 4 = ?$
8. $7 + 12 = ?$
9. $2 + 5 + 1 = ?$
10. $90 + 50 = ?$



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**CHAPTER 5**

Understanding Subtraction

Subtract Subtracting with pictures

Subtracting Subtracting 0

Subtracting Subtracting 1

Subtract Subtracting doubles

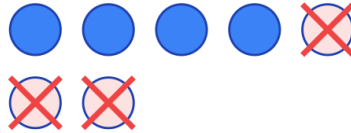
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Subtract with pictures

Subtracting with pictures



$$7 - 3 = 4$$

cross out 3, count what is left

DEFINITIONS

Subtract	Take away to find how many are left.
Take away	Remove some from the group.

KEY FORMULAS

- Count what is left after taking away
- $7 - 3 = 4$

WORKED EXAMPLES

Example 1: 7 apples, take away 3. How many left?

- Start with 7 apples.

The group.

- Take away 3: $7 - 3 = 4$.

Remove some.

- 4.

Final answer.

EXERCISES (EASY → DIFFICULT)

1. 9 apples, take away 9. How many left?
2. 7 apples, take away 2. How many left?
3. 4 apples, take away 3. How many left?
4. 3 apples, take away 3. How many left?
5. 6 apples, take away 6. How many left?
6. 7 apples, take away 6. How many left?
7. 5 apples, take away 4. How many left?



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- 8.** 6 apples, take away 5. How many left?
- 9.** 5 apples, take away 3. How many left?
- 10.** 3 apples, take away 2. How many left?

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Subtracting 0



$$8 - 3 = 5$$

DEFINITIONS

Zero

Nothing. Taking away 0 changes nothing.

KEY FORMULAS

- $a - 0 = a$
- Taking nothing away keeps the number

WORKED EXAMPLES

Example 1: $6 - 0 = ?$

- Subtracting 0 takes away nothing.

No change.

- $6 - 0 = 6$.

Same number.

- **6.**

Final answer.

EXERCISES (EASY → DIFFICULT)

1. $3 - 0 = ?$
2. $5 - 0 = ?$
3. $4 - 0 = ?$
4. $9 - 0 = ?$
5. $8 - 0 = ?$
6. $10 - 0 = ?$
7. $6 - 0 = ?$
8. $7 - 0 = ?$
9. $1 - 0 = ?$
10. $2 - 0 = ?$

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Subtracting 1



$$8 - 1 = 7$$

DEFINITIONS

Subtract 1 The number before, one less.

KEY FORMULAS

- $a - 1 = \text{number before}$
- $6 - 1 = 5$

WORKED EXAMPLES

Example 1: $6 - 1 = ?$

- Subtracting 1 means count back by 1.

One less.

- Before 6 comes 5.

Count back.

- **5.**

Final answer.

EXERCISES (EASY → DIFFICULT)

1. $7 - 1 = ?$
2. $5 - 1 = ?$
3. $3 - 1 = ?$
4. $10 - 1 = ?$
5. $1 - 1 = ?$
6. $6 - 1 = ?$
7. $2 - 1 = ?$
8. $4 - 1 = ?$
9. $9 - 1 = ?$
10. $8 - 1 = ?$



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Subtract doubles

Subtracting doubles



$$8 - 3 = 5$$

DEFINITIONS

Double

The same number twice. Taking one half away leaves the other half.

KEY FORMULAS

- double – half = half
- $6 - 3 = 3$

WORKED EXAMPLES

Example 1: $6 - 3 = ?$

► 6 is double 3.

$3 + 3$.

► Take 3 away, 3 is left.

$6 - 3 = 3$.

► **3.**

Final answer.

EXERCISES (EASY → DIFFICULT)

1. $4 - 2 = ?$
2. $10 - 5 = ?$
3. $2 - 1 = ?$
4. $6 - 3 = ?$
5. $8 - 4 = ?$



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End of Chapter 5 — Mixed Exercise

Ten questions across the whole chapter, from easy to difficult.

1. 9 apples, take away 9. How many left?
2. $5 - 0 = ?$
3. $3 - 1 = ?$
4. $6 - 3 = ?$
5. 6 apples, take away 6. How many left?
6. $10 - 0 = ?$
7. $2 - 1 = ?$
8. $8 - 4 = ?$
9. 5 apples, take away 3. How many left?
10. $2 - 0 = ?$



**CHAPTER 6**

Subtraction Skill Builders

Subtracting	Subtracting 1
Subtracting	Subtracting 2
Subtracting	Subtracting 3
Subtracting	Subtracting 4
Subtracting	Subtracting 5
Subtracting	Subtracting 6
Subtracting	Subtracting 7
Subtracting	Subtracting 8
Subtracting	Subtracting 9

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Subtracting 1



$$8 - 1 = 7$$

DEFINITIONS

Count back Start at a number and count 1 back.

KEY FORMULAS

- $a - 1 =$ count back 1
- Start at the number, jump 1 backward

WORKED EXAMPLES

Example 1: $10 - 1 = ?$

► Start at 10.

First number.

► Count back 1: $10 - 1 = 9$.

Jump backward.

► **9.**

Final answer.

EXERCISES (EASY → DIFFICULT)

1. $4 - 1 = ?$
2. $10 - 1 = ?$
3. $5 - 1 = ?$
4. $8 - 1 = ?$
5. $9 - 1 = ?$
6. $3 - 1 = ?$
7. $6 - 1 = ?$
8. $1 - 1 = ?$
9. $2 - 1 = ?$
10. $7 - 1 = ?$



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Subtracting 2



$$8 - 2 = 6$$

DEFINITIONS

Count back Start at a number and count 2 back.

KEY FORMULAS

- $a - 2 =$ count back 2
- Start at the number, jump 2 backward

WORKED EXAMPLES

Example 1: $10 - 2 = ?$

- Start at 10.

First number.

- Count back 2: $10 - 2 = 8$.

Jump backward.

- **8.**

Final answer.

EXERCISES (EASY → DIFFICULT)

1. $6 - 2 = ?$
2. $12 - 2 = ?$
3. $10 - 2 = ?$
4. $9 - 2 = ?$
5. $5 - 2 = ?$
6. $8 - 2 = ?$
7. $2 - 2 = ?$
8. $7 - 2 = ?$
9. $11 - 2 = ?$
10. $4 - 2 = ?$



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Subtracting 3



$$8 - 3 = 5$$

DEFINITIONS

Count back Start at a number and count 3 back.

KEY FORMULAS

- $a - 3 =$ count back 3
- Start at the number, jump 3 backward

WORKED EXAMPLES

Example 1: $10 - 3 = ?$

- Start at 10.

First number.

- Count back 3: $10 - 3 = 7$.

Jump backward.

- 7.

Final answer.

EXERCISES (EASY → DIFFICULT)

1. $4 - 3 = ?$
2. $10 - 3 = ?$
3. $11 - 3 = ?$
4. $12 - 3 = ?$
5. $7 - 3 = ?$
6. $6 - 3 = ?$
7. $3 - 3 = ?$
8. $9 - 3 = ?$
9. $8 - 3 = ?$
10. $13 - 3 = ?$



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Subtracting 4



$$8 - 4 = 4$$

DEFINITIONS

Count back Start at a number and count 4 back.

KEY FORMULAS

- $a - 4 =$ count back 4
- Start at the number, jump 4 backward

WORKED EXAMPLES

Example 1: $10 - 4 = ?$

- Start at 10.

First number.

- Count back 4: $10 - 4 = 6$.

Jump backward.

- **6.**

Final answer.

EXERCISES (EASY → DIFFICULT)

1. $10 - 4 = ?$
2. $14 - 4 = ?$
3. $11 - 4 = ?$
4. $7 - 4 = ?$
5. $6 - 4 = ?$
6. $9 - 4 = ?$
7. $12 - 4 = ?$
8. $8 - 4 = ?$
9. $5 - 4 = ?$
10. $13 - 4 = ?$



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Subtracting 5



$$8 - 5 = 3$$

DEFINITIONS

Count back Start at a number and count 5 back.

KEY FORMULAS

- $a - 5 =$ count back 5
- Start at the number, jump 5 backward

WORKED EXAMPLES

Example 1: $10 - 5 = ?$

- Start at 10.

First number.

- Count back 5: $10 - 5 = 5$.

Jump backward.

- 5.

Final answer.

EXERCISES (EASY → DIFFICULT)

1. $14 - 5 = ?$
2. $8 - 5 = ?$
3. $5 - 5 = ?$
4. $11 - 5 = ?$
5. $10 - 5 = ?$
6. $6 - 5 = ?$
7. $9 - 5 = ?$
8. $13 - 5 = ?$
9. $15 - 5 = ?$
10. $12 - 5 = ?$



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Subtracting 6



$$8 - 6 = 2$$

DEFINITIONS

Count back Start at a number and count 6 back.

KEY FORMULAS

- $a - 6 =$ count back 6
- Start at the number, jump 6 backward

WORKED EXAMPLES

Example 1: $10 - 6 = ?$

- Start at 10.

First number.

- Count back 6: $10 - 6 = 4$.

Jump backward.

- 4.

Final answer.

EXERCISES (EASY → DIFFICULT)

1. $13 - 6 = ?$
2. $14 - 6 = ?$
3. $9 - 6 = ?$
4. $12 - 6 = ?$
5. $7 - 6 = ?$
6. $6 - 6 = ?$
7. $11 - 6 = ?$
8. $10 - 6 = ?$
9. $8 - 6 = ?$
10. $15 - 6 = ?$



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Subtracting 7



$$8 - 6 = 2$$

DEFINITIONS

Count back Start at a number and count 7 back.

KEY FORMULAS

- $a - 7 =$ count back 7
- Start at the number, jump 7 backward

WORKED EXAMPLES

Example 1: $10 - 7 = ?$

- Start at 10.

First number.

- Count back 7: $10 - 7 = 3$.

Jump backward.

- **3.**

Final answer.

EXERCISES (EASY → DIFFICULT)

1. $15 - 7 = ?$
2. $11 - 7 = ?$
3. $17 - 7 = ?$
4. $10 - 7 = ?$
5. $7 - 7 = ?$
6. $8 - 7 = ?$
7. $13 - 7 = ?$
8. $14 - 7 = ?$
9. $16 - 7 = ?$
10. $9 - 7 = ?$



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Subtracting 8



$$8 - 6 = 2$$

DEFINITIONS

Count back Start at a number and count 8 back.

KEY FORMULAS

- $a - 8 =$ count back 8
- Start at the number, jump 8 backward

WORKED EXAMPLES

Example 1: $10 - 8 = ?$

- Start at 10.

First number.

- Count back 8: $10 - 8 = 2$.

Jump backward.

- 2.

Final answer.

EXERCISES (EASY → DIFFICULT)

1. $9 - 8 = ?$
2. $14 - 8 = ?$
3. $12 - 8 = ?$
4. $11 - 8 = ?$
5. $18 - 8 = ?$
6. $10 - 8 = ?$
7. $16 - 8 = ?$
8. $17 - 8 = ?$
9. $8 - 8 = ?$
10. $15 - 8 = ?$



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Subtracting 9



$$8 - 6 = 2$$

DEFINITIONS

Count back Start at a number and count 9 back.

KEY FORMULAS

- $a - 9 =$ count back 9
- Start at the number, jump 9 backward

WORKED EXAMPLES

Example 1: $10 - 9 = ?$

- Start at 10.

First number.

- Count back 9: $10 - 9 = 1$.

Jump backward.

- **1.**

Final answer.

EXERCISES (EASY → DIFFICULT)

1. $9 - 9 = ?$
2. $13 - 9 = ?$
3. $11 - 9 = ?$
4. $12 - 9 = ?$
5. $19 - 9 = ?$
6. $15 - 9 = ?$
7. $16 - 9 = ?$
8. $10 - 9 = ?$
9. $17 - 9 = ?$
10. $18 - 9 = ?$



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End of Chapter 6 — Mixed Exercise

Ten questions across the whole chapter, from easy to difficult.

1. $4 - 1 = ?$
2. $12 - 2 = ?$
3. $11 - 3 = ?$
4. $7 - 4 = ?$
5. $10 - 5 = ?$
6. $6 - 6 = ?$
7. $13 - 7 = ?$
8. $17 - 8 = ?$
9. $17 - 9 = ?$
10. $7 - 1 = ?$



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**CHAPTER 7**

Subtraction

Subtract Subtracting within 10

Subtract Subtracting within 20

Find Missing number

Word Subtraction word problems

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Subtract within 10

Subtracting within 10



$$8 - 6 = 2$$

DEFINITIONS

Subtract

Take away to find how many are left.

KEY FORMULAS

- Start at the first number, count back the second
- $8 - 3 = 5$

WORKED EXAMPLES

Example 1: $8 - 3 = ?$

► Start at 8.

First number.

► Count back 3: 7, 6, 5.

Count down.

► 5.

Final answer.

EXERCISES (EASY → DIFFICULT)

1. $3 - 1 = ?$
2. $8 - 8 = ?$
3. $6 - 6 = ?$
4. $5 - 4 = ?$
5. $4 - 2 = ?$
6. $7 - 6 = ?$
7. $7 - 4 = ?$
8. $5 - 1 = ?$
9. $4 - 3 = ?$
10. $8 - 4 = ?$



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Subtract within 20

Subtracting within 20



$$8 - 6 = 2$$

DEFINITIONS

Count back Start at a number and count down.

KEY FORMULAS

- Start at the first number, count back the second
- $15 - 4 = 11$

WORKED EXAMPLES

Example 1: $15 - 4 = ?$

► Start at 15.

First number.

► Count back 4: 14, 13, 12, 11.

Count down.

► **11.**

Final answer.

EXERCISES (EASY → DIFFICULT)

1. $19 - 9 = ?$
2. $16 - 8 = ?$
3. $14 - 9 = ?$
4. $14 - 6 = ?$
5. $13 - 1 = ?$
6. $17 - 8 = ?$
7. $15 - 14 = ?$
8. $19 - 3 = ?$
9. $16 - 3 = ?$
10. $18 - 1 = ?$



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Find the missing subtrahend

Missing number



$$8 - 3 = 5$$

DEFINITIONS

Difference How much was taken away.

KEY FORMULAS

- Taken away = start – end
- If $8 - ? = 5$, then $? = 8 - 5 = 3$

WORKED EXAMPLES

Example 1: $8 - ? = 5$

- We start with 8 and end with 5.

Find the gap.

- $8 - 5 = 3$.

Subtract.

- **3.**

Final answer.

EXERCISES (EASY → DIFFICULT)

1. $8 - ? = 6$
2. $10 - ? = 3$
3. $9 - ? = 8$
4. $10 - ? = 5$
5. $5 - ? = 2$
6. $5 - ? = 4$
7. $8 - ? = 2$
8. $9 - ? = 6$
9. $9 - ? = 3$
10. $10 - ? = 7$



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Word problems: subtraction

Subtraction word problems



$$7 - 3 = 4$$

DEFINITIONS

Fly away / left Words that mean subtract — the amount goes down.

KEY FORMULAS

- 'Fly away' or 'left' means subtract
- **Left = start – gone**

WORKED EXAMPLES

Example 1: There are 8 birds. 3 fly away. How many left?

- ▶ 'Fly away' means subtract.

Amount goes down.

- ▶ $8 - 3 = 5$.

Subtract.

- ▶ **5.**

Final answer.

EXERCISES (EASY → DIFFICULT)

1. There are 10 birds. 7 fly away. How many left?
2. There are 7 birds. 6 fly away. How many left?
3. There are 10 birds. 6 fly away. How many left?
4. There are 9 birds. 5 fly away. How many left?
5. There are 6 birds. 4 fly away. How many left?
6. There are 7 birds. 3 fly away. How many left?
7. There are 8 birds. 3 fly away. How many left?
8. There are 8 birds. 6 fly away. How many left?
9. There are 5 birds. 3 fly away. How many left?
10. There are 9 birds. 2 fly away. How many left?



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End of Chapter 7 — Mixed Exercise

Ten questions across the whole chapter, from easy to difficult.

1. $3 - 1 = ?$
2. $16 - 8 = ?$
3. $9 - ? = 8$
4. There are 9 birds. 5 fly away. How many left?
5. $4 - 2 = ?$
6. $17 - 8 = ?$
7. $8 - ? = 2$
8. There are 8 birds. 6 fly away. How many left?
9. $4 - 3 = ?$
10. $18 - 1 = ?$



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CHAPTER 8

Comparing

- Compare** Comparing to 10
- Compare** Comparing to 100
- Greatest** Greatest and least
- Order** Ordering numbers



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Compare numbers up to 10

Comparing to 10

$$46 > 29$$

compare the numbers

DEFINITIONS

Greater than ($>$) The bigger number.

Less than ($<$) The smaller number.

KEY FORMULAS

- $>$ bigger, $<$ smaller, $=$ the same
- **The open mouth faces the bigger number**

WORKED EXAMPLES

Example 1: Compare 7 and 3.

- ▶ 7 is bigger than 3.

Look at both.

- ▶ Use the $>$ sign.

Open faces 7.

- ▶ **$7 > 3$.**

Final answer.

EXERCISES (EASY → DIFFICULT)

1. Compare 4 __ 7 ($>$, $<$ or $=$)
2. Compare 8 __ 2 ($>$, $<$ or $=$)
3. Compare 5 __ 4 ($>$, $<$ or $=$)
4. Compare 2 __ 8 ($>$, $<$ or $=$)
5. Compare 1 __ 7 ($>$, $<$ or $=$)
6. Compare 5 __ 3 ($>$, $<$ or $=$)
7. Compare 10 __ 8 ($>$, $<$ or $=$)
8. Compare 5 __ 9 ($>$, $<$ or $=$)
9. Compare 3 __ 2 ($>$, $<$ or $=$)
10. Compare 5 __ 7 ($>$, $<$ or $=$)



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Compare numbers up to 100

Comparing to 100

$$46 > 29$$

compare the numbers

DEFINITIONS

Tens first

Compare the tens digit before the units.

KEY FORMULAS

- Compare the tens digit first
- Bigger tens = bigger number

WORKED EXAMPLES

Example 1: Compare 45 and 72.

- Tens: 4 vs 7.

Compare tens.

- 7 is bigger, so 45 is smaller.

Bigger tens wins.

- $45 < 72$.

Final answer.

EXERCISES (EASY → DIFFICULT)

1. Compare 64 __ 17
2. Compare 73 __ 40
3. Compare 95 __ 90
4. Compare 33 __ 69
5. Compare 55 __ 99
6. Compare 76 __ 19
7. Compare 79 __ 72
8. Compare 58 __ 30
9. Compare 88 __ 22
10. Compare 22 __ 60



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Greatest and least

$$46 > 29$$

compare the numbers

DEFINITIONS

Greatest	The biggest number.
Least	The smallest number.

KEY FORMULAS

- Compare all the numbers
- Biggest = greatest

WORKED EXAMPLES

Example 1: Greatest of 12, 5, 20?

- Compare all three.

Look at each.

- 20 is the biggest.

Greatest.

- **20.**

Final answer.

EXERCISES (EASY → DIFFICULT)

1. Greatest of 5, 6, 23?
2. Greatest of 2, 6, 26?
3. Greatest of 12, 21, 8?
4. Greatest of 20, 30, 22?
5. Greatest of 7, 18, 8?
6. Greatest of 6, 12, 9?
7. Greatest of 26, 9, 29?
8. Greatest of 10, 28, 20?
9. Greatest of 16, 4, 20?
10. Greatest of 3, 20, 3?



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Order numbers smallest to biggest

Ordering numbers

$$46 > 29$$

compare the numbers

DEFINITIONS

Order

Put numbers in a line from smallest to biggest.

KEY FORMULAS

- Compare, then line up smallest first

WORKED EXAMPLES

Example 1: Order 8, 3, 15 smallest first.

- Find the smallest: 3.

Lowest.

- Then 8, then 15.

By size.

- **3, 8, 15.**

Final answer.

EXERCISES (EASY → DIFFICULT)

1. Order 16, 18, 14 smallest first:
2. Order 2, 12, 4 smallest first:
3. Order 18, 2, 16 smallest first:
4. Order 3, 4, 8 smallest first:
5. Order 11, 5, 5 smallest first:
6. Order 16, 20, 13 smallest first:
7. Order 13, 13, 17 smallest first:
8. Order 11, 2, 18 smallest first:
9. Order 17, 11, 13 smallest first:
10. Order 7, 19, 13 smallest first:



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End of Chapter 8 — Mixed Exercise

Ten questions across the whole chapter, from easy to difficult.

1. Compare 4 __ 7 (>, < or =)
2. Compare 73 __ 40
3. Greatest of 12, 21, 8?
4. Order 3, 4, 8 smallest first:
5. Compare 1 __ 7 (>, < or =)
6. Compare 76 __ 19
7. Greatest of 26, 9, 29?
8. Order 11, 2, 18 smallest first:
9. Compare 3 __ 2 (>, < or =)
10. Compare 22 __ 60



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CHAPTER 9

Estimation

Estimate Rounding to the nearest 10





Estimate to nearest 10

Rounding to the nearest 10



round 24 to nearest 10

DEFINITIONS

Round	Change a number to the closest ten.
Nearest 10	The closest number that ends in 0.

KEY FORMULAS

- **Look at the units digit**
- **5 or more → round up; less than 5 → round down**

WORKED EXAMPLES

Example 1: Round 23 to the nearest 10.

- Units digit is 3.
Look at the end.
- 3 is less than 5, so round down.
Down to 20.
- **20.**
Final answer.

EXERCISES (EASY → DIFFICULT)

1. Round 46 to the nearest 10:
2. Round 52 to the nearest 10:
3. Round 78 to the nearest 10:
4. Round 15 to the nearest 10:
5. Round 40 to the nearest 10:
6. Round 63 to the nearest 10:
7. Round 58 to the nearest 10:
8. Round 36 to the nearest 10:
9. Round 53 to the nearest 10:
10. Round 23 to the nearest 10:



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End of Chapter 9 — Mixed Exercise

Ten questions across the whole chapter, from easy to difficult.

1. Round 46 to the nearest 10:
2. Round 52 to the nearest 10:
3. Round 78 to the nearest 10:
4. Round 15 to the nearest 10:
5. Round 40 to the nearest 10:
6. Round 63 to the nearest 10:
7. Round 58 to the nearest 10:
8. Round 36 to the nearest 10:
9. Round 53 to the nearest 10:
10. Round 23 to the nearest 10:



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**CHAPTER 10**

2D Shapes

Name Naming 2D shapes

Sides Counting sides

Vertices Counting corners

Symmetry Lines of symmetry

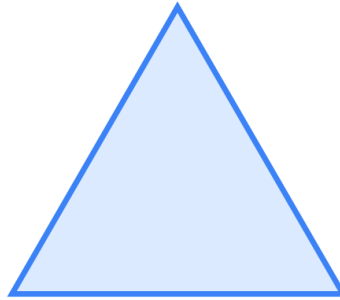
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Name the shape from sides

Naming 2D shapes



3 sides

triangle

DEFINITIONS

2D shape	A flat shape, like a triangle or square.
Side	One straight edge of a shape.

KEY FORMULAS

- 3 sides → triangle
- 4 sides → square
- 5 → pentagon, 6 → hexagon

WORKED EXAMPLES

Example 1: A shape with 3 sides is called a?

- Count the sides: 3.

Number of edges.

- 3 sides is a triangle.

Name it.

- **triangle.**

Final answer.

EXERCISES (EASY → DIFFICULT)

1. A shape with 5 sides is called a:
2. A shape with 6 sides is called a:
3. A shape with 3 sides is called a:
4. A shape with 4 sides is called a:



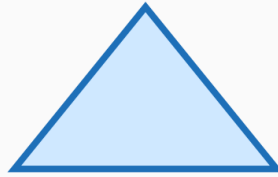
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Sides of a shape

Counting sides



triangle

DEFINITIONS

Side

A straight edge of a shape.

KEY FORMULAS

- Triangle 3, square 4, pentagon 5, hexagon 6

WORKED EXAMPLES

Example 1: How many sides does a triangle have?

- Picture a triangle.

Look at it.

- It has 3 straight edges.

Count.

- **3.**

Final answer.

EXERCISES (EASY → DIFFICULT)

1. How many sides does a square have?
2. How many sides does a hexagon have?
3. How many sides does a pentagon have?
4. How many sides does a triangle have?



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Vertices (corners) of a shape

Counting corners



triangle

DEFINITIONS

Vertex (corner) Where two sides meet.

KEY FORMULAS

- **Corners = sides**
- **A triangle has 3 corners**

WORKED EXAMPLES

Example 1: How many corners does a triangle have?

- A triangle has 3 sides.

Sides = corners.

- So it has 3 corners.

Count.

- **3.**

Final answer.

EXERCISES (EASY → DIFFICULT)

1. How many corners does a triangle have?
2. How many corners does a square have?
3. How many corners does a hexagon have?
4. How many corners does a pentagon have?



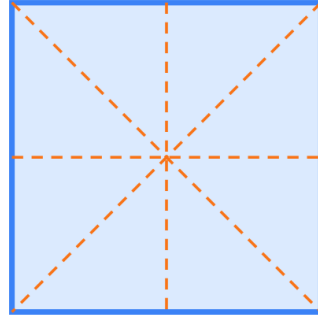
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Symmetry — does it have a line?

Lines of symmetry



folds into matching halves

it has a line of symmetry

DEFINITIONS

Line of symmetry

A line that folds a shape into two matching halves.

KEY FORMULAS

- A shape with symmetry folds into matching halves

WORKED EXAMPLES

Example 1: Does a square have a line of symmetry? (yes/no)

- Fold a square in half.

Test the fold.

- The two halves match.

They are the same.

- **yes.**

Final answer.

EXERCISES (EASY → DIFFICULT)

1. Does a circle have a line of symmetry? (yes/no)
2. Does a square have a line of symmetry? (yes/no)
3. Does a triangle have a line of symmetry? (yes/no)
4. Does a rectangle have a line of symmetry? (yes/no)



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End of Chapter 10 — Mixed Exercise

Ten questions across the whole chapter, from easy to difficult.

1. A shape with 5 sides is called a:
2. How many sides does a hexagon have?
3. How many corners does a hexagon have?
4. Does a rectangle have a line of symmetry? (yes/no)
5. A shape with 4 sides is called a:
6. How many sides does a triangle have?
7. How many corners does a pentagon have?
8. Does a circle have a line of symmetry? (yes/no)
9. A shape with 6 sides is called a:
10. How many sides does a square have?



**CHAPTER 11**

3D Shapes

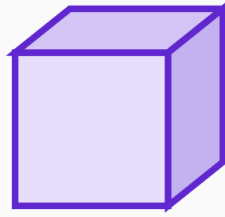
- Faces** Faces of 3D shapes
- Edges** Edges of a cube
- Vertices** Corners of a cube
- Match** Real-life 3D shapes





Faces of a 3D shape

Faces of 3D shapes



cube

DEFINITIONS

3D shape A solid shape you can hold.

Face A flat side of a solid shape.

KEY FORMULAS

- **Cube: 6 faces**
- **Cylinder: 3 faces, Cone: 2 faces**

WORKED EXAMPLES

Example 1: How many flat faces does a cube have?

- A cube is like a box.

Picture it.

- It has 6 flat faces.

Count them.

- **6.**

Final answer.

EXERCISES (EASY → DIFFICULT)

1. How many flat faces does a cylinder have?
2. How many flat faces does a cone have?
3. How many flat faces does a cube have?

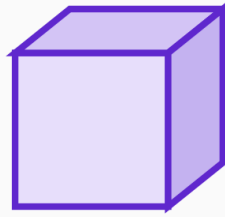


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Edges of a cube



cube

DEFINITIONS

Edge

A line where two faces meet.

KEY FORMULAS

- A cube has 12 edges
- $4 \text{ top} + 4 \text{ bottom} + 4 \text{ up} = 12$

WORKED EXAMPLES

Example 1: How many edges does a cube have?

- ▶ 4 edges on top, 4 on the bottom.

Top and bottom.

- ▶ 4 going up the sides.

Add them: $4+4+4$.

- ▶ **12.**

Final answer.

EXERCISES (EASY → DIFFICULT)

1. How many edges does a cube have?

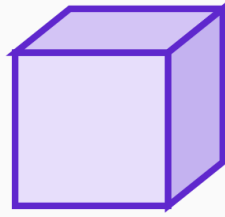
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Vertices of a cube

Corners of a cube



cube

DEFINITIONS

Vertex (corner) A point where edges meet.

KEY FORMULAS

- A cube has 8 corners
- $4 \text{ top} + 4 \text{ bottom} = 8$

WORKED EXAMPLES

Example 1: How many corners does a cube have?

- ▶ 4 corners on top, 4 on the bottom.

Top and bottom.

- ▶ $4 + 4 = 8$.

Add them.

- ▶ **8.**

Final answer.

EXERCISES (EASY → DIFFICULT)

1. How many vertices (corners) does a cube have?



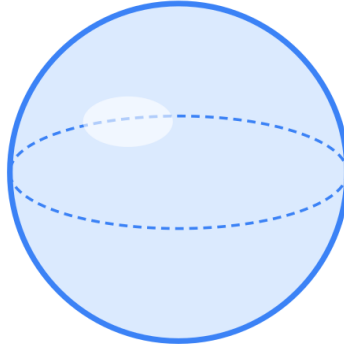
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Match real-life objects to 3D shapes

Real-life 3D shapes



sphere

like a ball

DEFINITIONS

3D shape

A solid shape like everyday objects.

KEY FORMULAS

- Ball → sphere, box → cube
- Can → cylinder, party hat → cone

WORKED EXAMPLES

Example 1: Which 3D shape is a ball?

- Think of a round ball.

Picture it.

- A ball is a sphere.

Name it.

- **sphere.**

Final answer.

EXERCISES (EASY → DIFFICULT)

1. Which 3D shape is a ball?
2. Which 3D shape is a box?
3. Which 3D shape is a party hat?
4. Which 3D shape is a can?



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End of Chapter 11 — Mixed Exercise

Ten questions across the whole chapter, from easy to difficult.

1. How many flat faces does a cylinder have?
2. How many edges does a cube have?
3. How many vertices (corners) does a cube have?
4. Which 3D shape is a can?
5. How many flat faces does a cube have?
6. How many edges does a cube have?
7. How many vertices (corners) does a cube have?
8. Which 3D shape is a ball?
9. How many flat faces does a cone have?
10. How many edges does a cube have?





CHAPTER 12

Spatial Sense

Above, Above, below, beside

Left Left and right

Inside Inside and outside

Top, Top, middle, bottom

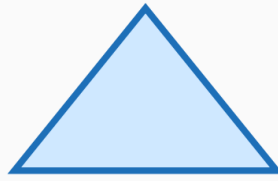


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Above, below, beside



triangle

DEFINITIONS

Above	On top of, higher up.
Below	Underneath, lower down.

KEY FORMULAS

- Above = on top, below = underneath, beside = next to

WORKED EXAMPLES

Example 1: The roof is ___ the house.

- Think where the roof is.
On top.
- The roof is above the house.
Higher up.
- **above.**
Final answer.

EXERCISES (EASY → DIFFICULT)

1. The roof is ___ the house.

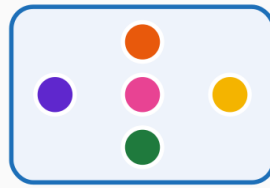


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Left and right



position words

DEFINITIONS

Left and right The two sides of your body.

KEY FORMULAS

- Your left hand is on your left side

WORKED EXAMPLES

Example 1: Your left hand is on which side?

- Hold up your left hand.

Look at it.

- It is on your left side.

Left.

- **left.**

Final answer.

EXERCISES (EASY → DIFFICULT)

1. Hold up your left hand. Which side of your body is it on?

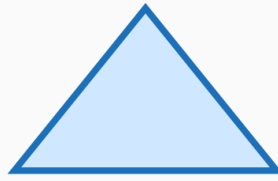


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Inside and outside



triangle

DEFINITIONS

Inside	Within something.
Outside	Not within — out of it.

KEY FORMULAS

- **Inside = within, outside = out of it**

WORKED EXAMPLES

Example 1: A fish in a pond is ___ the pond.

- The fish is in the water.

Within.

- So it is inside the pond.

Inside.

- **inside.**

Final answer.

EXERCISES (EASY → DIFFICULT)

1. A fish in a pond is ___ the pond.

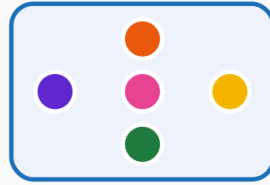


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Top, middle, bottom



position words

DEFINITIONS

Top, middle, bottom The three positions in a stack.

KEY FORMULAS

- Top = highest, middle = in between, bottom = lowest

WORKED EXAMPLES

Example 1: The middle book of 3 stacked books is in the ____.

- 3 books: top, middle, bottom.

A stack.

- The one in between is the middle.

Position.

- **middle.**

Final answer.

EXERCISES (EASY → DIFFICULT)

1. The middle book of 3 stacked books is in the ____.

End of Chapter 12 — Mixed Exercise

Ten questions across the whole chapter, from easy to difficult.

1. The roof is ____ the house.
2. Hold up your left hand. Which side of your body is it on?
3. A fish in a pond is ____ the pond.
4. The middle book of 3 stacked books is in the ____.
5. The roof is ____ the house.
6. Hold up your left hand. Which side of your body is it on?
7. A fish in a pond is ____ the pond.
8. The middle book of 3 stacked books is in the ____.
9. The roof is ____ the house.
10. Hold up your left hand. Which side of your body is it on?



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CHAPTER 13

Sorting and Classifying

Sort Sorting by colour

Sort Sorting by size



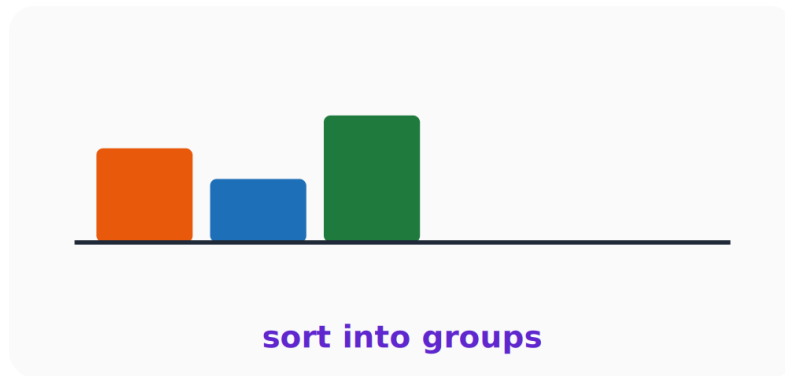
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Sort by colour

Sorting by colour



DEFINITIONS

Sort

Group things that are the same together.

KEY FORMULAS

- Same colour goes together

WORKED EXAMPLES

Example 1: Sorting red and blue toys — where do red toys go?

- Sort means group the same things.

Together.

- Red toys go with red toys.

Same colour.

- **red** pile.

Final answer.

EXERCISES (EASY → DIFFICULT)

1. If we sort red and blue toys, the red ones go in the ___ pile.



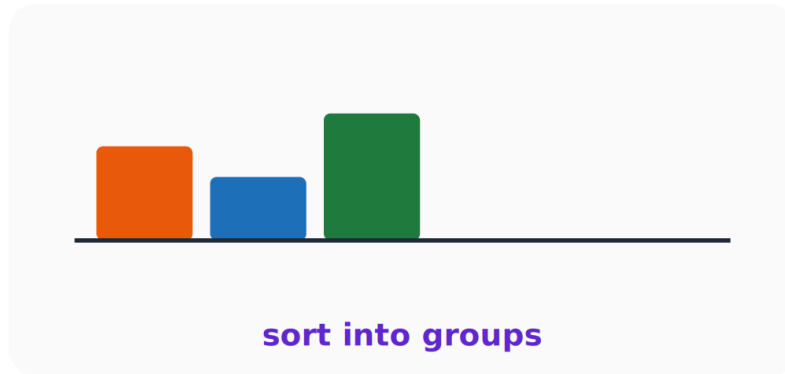
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Sort by size

Sorting by size



DEFINITIONS

Size

How big or small something is.

KEY FORMULAS

- Big with big, small with small

WORKED EXAMPLES

Example 1: Big things and small things are sorted by what?

- Big or small tells the size.

How big.

- They are sorted by size.

Name it.

- **size.**

Final answer.

EXERCISES (EASY → DIFFICULT)

1. Big things and small things are sorted by:

End of Chapter 13 — Mixed Exercise

Ten questions across the whole chapter, from easy to difficult.

1. If we sort red and blue toys, the red ones go in the ___ pile.
2. Big things and small things are sorted by:
3. If we sort red and blue toys, the red ones go in the ___ pile.
4. Big things and small things are sorted by:
5. If we sort red and blue toys, the red ones go in the ___ pile.
6. Big things and small things are sorted by:
7. If we sort red and blue toys, the red ones go in the ___ pile.
8. Big things and small things are sorted by:
9. If we sort red and blue toys, the red ones go in the ___ pile.
10. Big things and small things are sorted by:



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CHAPTER 14

Data and Graphs

Read Reading tally charts

Read Reading bar graphs

Most Most and least



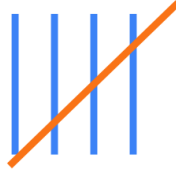
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Read a tally chart

Reading tally charts



5 marks = 5

each mark counts as 1

DEFINITIONS

Tally mark

A small line that stands for one.

KEY FORMULAS

- Each tally mark = 1
- Count the marks

WORKED EXAMPLES

Example 1: A tally shows 5 marks for cats. How many cats?

- Each mark = 1.

Tally rule.

- 5 marks = 5 cats.

Count.

- **5.**

Final answer.

EXERCISES (EASY → DIFFICULT)

1. If a tally shows 2 marks for "cats", how many cats are there?
2. If a tally shows 8 marks for "cats", how many cats are there?
3. If a tally shows 7 marks for "cats", how many cats are there?
4. If a tally shows 5 marks for "cats", how many cats are there?
5. If a tally shows 3 marks for "cats", how many cats are there?
6. If a tally shows 6 marks for "cats", how many cats are there?
7. If a tally shows 4 marks for "cats", how many cats are there?

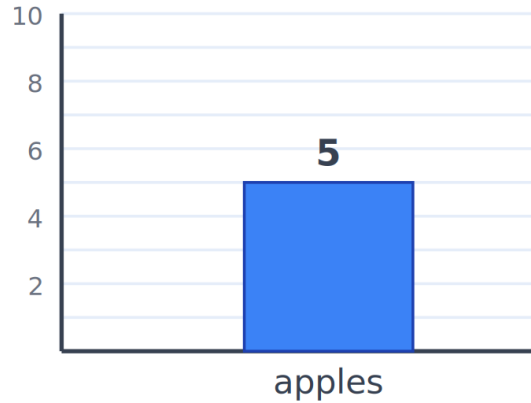
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Read a bar graph

Reading bar graphs



the bar height shows the count

DEFINITIONS

Bar graph

A chart with bars; the taller the bar, the bigger the number.

KEY FORMULAS

- The height of the bar = the count

WORKED EXAMPLES

Example 1: A bar shows 5 apples. How many apples?

- The bar height shows the count.

Read the top.

- The apples bar shows 5.

Count.

- 5.

Final answer.

EXERCISES (EASY → DIFFICULT)

1. A bar graph shows 3 apples. How many apples?
2. A bar graph shows 8 apples. How many apples?
3. A bar graph shows 9 apples. How many apples?
4. A bar graph shows 4 apples. How many apples?
5. A bar graph shows 5 apples. How many apples?
6. A bar graph shows 6 apples. How many apples?
7. A bar graph shows 7 apples. How many apples?



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Most and least on a graph

$$46 > 29$$

compare the numbers

DEFINITIONS

Most	The biggest amount.
Least	The smallest amount.

KEY FORMULAS

- **Most = biggest, least = smallest**

WORKED EXAMPLES

Example 1: Apples 5, pears 3. Which is the most?

- Compare: 5 vs 3.
Look at both.
- 5 is more, so apples.
Most.
- **apples.**
Final answer.

EXERCISES (EASY → DIFFICULT)

1. If apples = 5 and pears = 3, which is the most?

End of Chapter 14 — Mixed Exercise

Ten questions across the whole chapter, from easy to difficult.

1. If a tally shows 2 marks for "cats", how many cats are there?
2. A bar graph shows 8 apples. How many apples?
3. If apples = 5 and pears = 3, which is the most?
4. If a tally shows 5 marks for "cats", how many cats are there?
5. A bar graph shows 5 apples. How many apples?
6. If apples = 5 and pears = 3, which is the most?
7. If a tally shows 4 marks for "cats", how many cats are there?
8. A bar graph shows 7 apples. How many apples?
9. If apples = 5 and pears = 3, which is the most?
10. If a tally shows 8 marks for "cats", how many cats are there?



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**CHAPTER 15**

Measurement

Long Long and short

Tall Tall and short

Heavy Heavy and light

Centimetres Measuring in cm

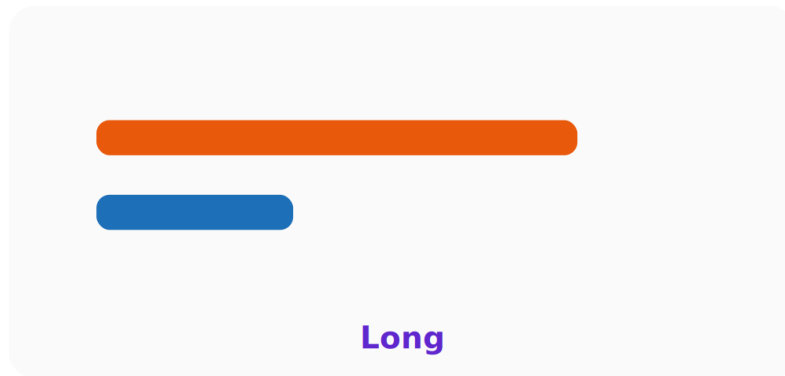
Metres Metres and centimetres

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Long and short



DEFINITIONS

Long	Stretches a big distance.
Short	Only a small distance.

KEY FORMULAS

- Long = stretches far, short = a little

WORKED EXAMPLES

Example 1: Is a snake long or short?

- A snake stretches out a long way.

Picture it.

- So a snake is long.

Long.

- **long.**

Final answer.

EXERCISES (EASY → DIFFICULT)

1. Is a snake long or short?

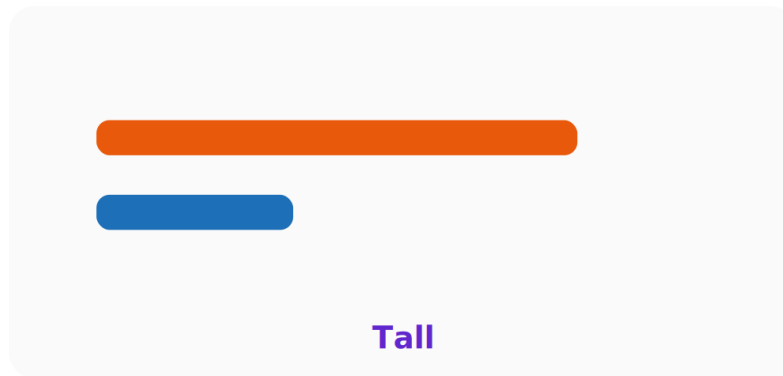


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Tall and short



DEFINITIONS

Tall	Reaches high up.
Short	Low, not high.

KEY FORMULAS

- Tall = reaches high, short = low

WORKED EXAMPLES

Example 1: Is a giraffe tall or short?

- A giraffe has a long neck.

Reaches high.

- So a giraffe is tall.

Tall.

- **tall.**

Final answer.

EXERCISES (EASY → DIFFICULT)

1. Is a giraffe tall or short?

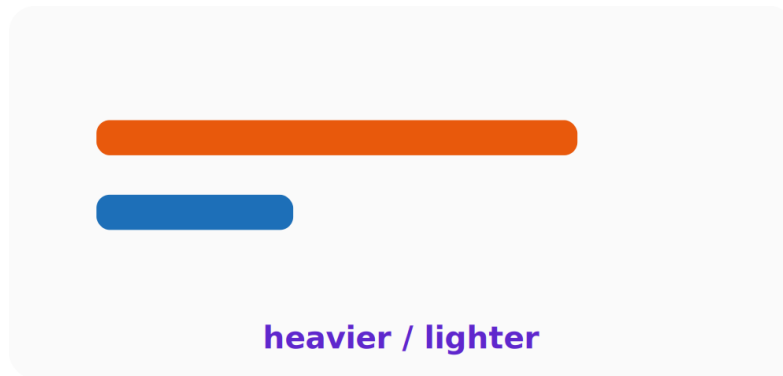


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Heavy and light



DEFINITIONS

Heavy	Hard to lift.
Light	Easy to lift.

KEY FORMULAS

- Heavy = hard to lift, light = easy to lift

WORKED EXAMPLES

Example 1: Is a feather heavy or light?

- A feather floats in the air.

Very light.

- So a feather is light.

Light.

- **light.**

Final answer.

EXERCISES (EASY → DIFFICULT)

1. Is a feather heavy or light?



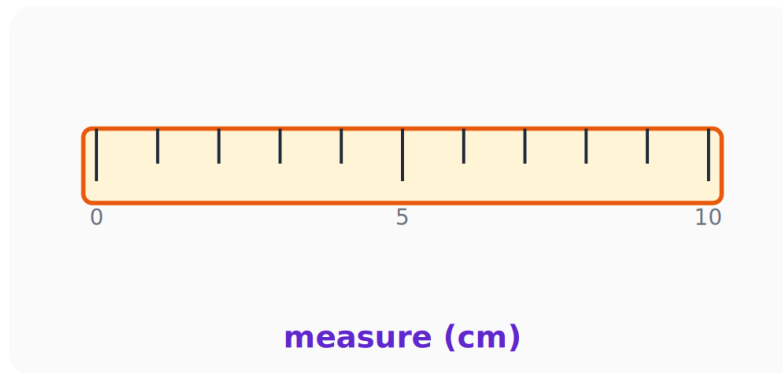
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Centimetres

Measuring in cm



DEFINITIONS

Centimetre (cm) A small unit for measuring length.

Longer Subtract to find how much longer.

KEY FORMULAS

- **Difference = longer – shorter**

WORKED EXAMPLES

Example 1: A pencil is 5 cm. A ruler is 12 cm. How much longer is the ruler?

- Longer means subtract.

Find the gap.

- $12 - 5 = 7$.

Subtract.

- **7 cm.**

Final answer.

EXERCISES (EASY → DIFFICULT)

1. A pencil is 7 cm. A ruler is 13 cm. How much longer is the ruler?
2. A pencil is 6 cm. A ruler is 15 cm. How much longer is the ruler?
3. A pencil is 8 cm. A ruler is 12 cm. How much longer is the ruler?
4. A pencil is 8 cm. A ruler is 16 cm. How much longer is the ruler?
5. A pencil is 9 cm. A ruler is 12 cm. How much longer is the ruler?
6. A pencil is 9 cm. A ruler is 15 cm. How much longer is the ruler?
7. A pencil is 7 cm. A ruler is 10 cm. How much longer is the ruler?
8. A pencil is 9 cm. A ruler is 17 cm. How much longer is the ruler?
9. A pencil is 5 cm. A ruler is 14 cm. How much longer is the ruler?
10. A pencil is 2 cm. A ruler is 9 cm. How much longer is the ruler?



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Metres

Metres and centimetres



measure (cm)

DEFINITIONS

Metre (m) A bigger unit of length. $1 \text{ m} = 100 \text{ cm}$.

KEY FORMULAS

• $1 \text{ m} = 100 \text{ cm}$

WORKED EXAMPLES

Example 1: How many cm are in 1 m?

► Remember: $1 \text{ m} = 100 \text{ cm}$.

Length fact.

► **100.**

Final answer.

EXERCISES (EASY → DIFFICULT)

1. How many cm in 1 m?

End of Chapter 15 — Mixed Exercise

Ten questions across the whole chapter, from easy to difficult.

1. Is a snake long or short?
2. Is a giraffe tall or short?
3. Is a feather heavy or light?
4. A pencil is 8 cm. A ruler is 16 cm. How much longer is the ruler?
5. How many cm in 1 m?
6. Is a snake long or short?
7. Is a giraffe tall or short?
8. Is a feather heavy or light?
9. A pencil is 5 cm. A ruler is 14 cm. How much longer is the ruler?
10. How many cm in 1 m?



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**CHAPTER 16**

Money

- Coin** Coin values
- Add** Adding coins
- Rand** Rand notes
- Making** Making change





Coin values (cents)



DEFINITIONS

Cent (c) A small unit of money.

KEY FORMULAS

- A 10c coin is worth 10 cents
- The number on the coin is its value

WORKED EXAMPLES

Example 1: What is a 10c coin worth?

- The number on the coin is its value.

Read it.

- A 10c coin is worth 10 cents.

Value.

- **10.**

Final answer.

EXERCISES (EASY → DIFFICULT)

1. What is the value of a 50c coin in cents?
2. What is the value of a 20c coin in cents?
3. What is the value of a 5c coin in cents?
4. What is the value of a 10c coin in cents?



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Add coin values

Adding coins



$$3 + 4 = 7$$

DEFINITIONS

Add coins

Add the values of the coins together.

KEY FORMULAS

- **Total = coin + coin**
- **10c + 20c = 30c**

WORKED EXAMPLES

Example 1: A 10c coin + a 20c coin = ?c

► Add the values.

$$10 + 20.$$

► $10 + 20 = 30$.

Add.

► **30c.**

Final answer.

EXERCISES (EASY → DIFFICULT)

1. A 50c coin + a 50c coin = ?c
2. A 10c coin + a 20c coin = ?c
3. A 20c coin + a 10c coin = ?c
4. A 20c coin + a 50c coin = ?c
5. A 10c coin + a 10c coin = ?c
6. A 50c coin + a 10c coin = ?c
7. A 50c coin + a 20c coin = ?c
8. A 10c coin + a 50c coin = ?c
9. A 20c coin + a 20c coin = ?c



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Rand notes



DEFINITIONS

Rand (R)

South African money. R10 notes are common.

KEY FORMULAS

- **How many R10 notes = amount $\div$ 10**
- **R50 = 5 $\times$ R10**

WORKED EXAMPLES

Example 1: How many R10 notes make R50?

- Divide R50 by R10.

How many tens.

- $50 \div 10 = 5$.

Divide.

- **5.**

Final answer.

EXERCISES (EASY $\rightarrow$ DIFFICULT)

1. How many R10 notes make R10?
2. How many R10 notes make R20?
3. How many R10 notes make R50?
4. How many R10 notes make R100?

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Making change



DEFINITIONS

Change

The money you get back: paid minus cost.

KEY FORMULAS

- **Change = paid – cost**
- **Paid R10, cost R6 → R4 change**

WORKED EXAMPLES

Example 1: A toy costs R6. You pay R10. What is the change?

- Change = paid – cost.

The rule.

- $R10 - R6 = R4$.

Subtract.

- **R4.**

Final answer.

EXERCISES (EASY → DIFFICULT)

1. A toy costs R4. You pay R10. Change?
2. A toy costs R9. You pay R10. Change?
3. A toy costs R2. You pay R10. Change?
4. A toy costs R7. You pay R10. Change?
5. A toy costs R5. You pay R10. Change?
6. A toy costs R6. You pay R10. Change?
7. A toy costs R3. You pay R10. Change?
8. A toy costs R8. You pay R10. Change?

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End of Chapter 16 — Mixed Exercise

Ten questions across the whole chapter, from easy to difficult.

1. What is the value of a 50c coin in cents?
2. A 10c coin + a 20c coin = ?c
3. How many R10 notes make R50?
4. A toy costs R7. You pay R10. Change?
5. What is the value of a 10c coin in cents?
6. A 50c coin + a 10c coin = ?c
7. How many R10 notes make R100?
8. A toy costs R8. You pay R10. Change?
9. What is the value of a 20c coin in cents?
10. A 20c coin + a 20c coin = ?c



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CHAPTER 17

Time

Days Days of the week

Months Months of the year

Read Reading o'clock

A.M. A.M. and P.M.

Hours Hours in a day

Minutes Minutes in an hour

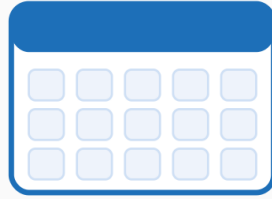


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Days of the week



calendar

DEFINITIONS

Week

Seven days, Monday to Sunday.

KEY FORMULAS

- **Mon, Tue, Wed, Thu, Fri, Sat, Sun**

WORKED EXAMPLES

Example 1: What comes after Monday?

- Days go in order.

Mon, Tue...

- After Monday comes Tuesday.

Next day.

- **Tuesday.**

Final answer.

EXERCISES (EASY → DIFFICULT)

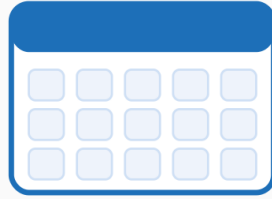
1. What comes after Tuesday?
2. What comes after Wednesday?
3. What comes after Thursday?
4. What comes after Monday?
5. What comes after Friday?
6. What comes after Saturday?

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Months of the year



calendar

DEFINITIONS

Year

Twelve months, January to December.

KEY FORMULAS

- Jan, Feb, Mar ... Dec in order

WORKED EXAMPLES

Example 1: What month comes after January?

- Months go in order.

Jan, Feb...

- After January comes February.

Next month.

- **February.**

Final answer.

EXERCISES (EASY → DIFFICULT)

1. What month comes after March?
2. What month comes after April?
3. What month comes after May?
4. What month comes after June?
5. What month comes after January?
6. What month comes after July?
7. What month comes after November?
8. What month comes after February?
9. What month comes after August?
10. What month comes after September?

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Read clocks (hour)

Reading o'clock



3:00

long hand on 12 = o'clock

DEFINITIONS

O'clock

When the minute hand points to 12.

KEY FORMULAS

- Minute hand on 12 = o'clock
- Hour hand shows the hour

WORKED EXAMPLES

Example 1: Hour hand on 3, minute hand on 12. What time?

- Minute hand on 12 means o'clock.

On the hour.

- Hour hand on 3, so 3 o'clock.

Read the hour.

- **3:00.**

Final answer.

EXERCISES (EASY → DIFFICULT)

1. The hour hand points to 11, the minute hand to 12. What time is it?
2. The hour hand points to 2, the minute hand to 12. What time is it?
3. The hour hand points to 7, the minute hand to 12. What time is it?
4. The hour hand points to 3, the minute hand to 12. What time is it?
5. The hour hand points to 10, the minute hand to 12. What time is it?
6. The hour hand points to 1, the minute hand to 12. What time is it?
7. The hour hand points to 8, the minute hand to 12. What time is it?
8. The hour hand points to 5, the minute hand to 12. What time is it?



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9. The hour hand points to 4, the minute hand to 12. What time is it?
10. The hour hand points to 9, the minute hand to 12. What time is it?

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A.M. or P.M.

A.M. and P.M.



tell the time

DEFINITIONS

A.M.	Morning, before noon.
P.M.	Afternoon and evening, after noon.

KEY FORMULAS

- **A.M. = morning, P.M. = afternoon/night**

WORKED EXAMPLES

Example 1: Is breakfast A.M. or P.M.?

- A.M. means morning.
Before noon.
- Breakfast is in the morning.
A.M.
- **A.M.**
Final answer.

EXERCISES (EASY → DIFFICULT)

1. Is breakfast in the morning A.M. or P.M.?



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Hours in a day



tell the time

DEFINITIONS

Day 24 hours long.

KEY FORMULAS

- 1 day = 24 hours

WORKED EXAMPLES

Example 1: How many hours in a day?

- A full day, morning and night.

All day.

- That is 24 hours.

Fact.

- **24.**

Final answer.

EXERCISES (EASY → DIFFICULT)

1. How many hours in a day?



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Minutes in an hour



tell the time

DEFINITIONS

Hour 60 minutes long.

KEY FORMULAS

- **1 hour = 60 minutes**

WORKED EXAMPLES

Example 1: How many minutes in an hour?

- An hour is made of minutes.

Smaller units.

- There are 60 minutes.

Fact.

- **60.**

Final answer.

EXERCISES (EASY → DIFFICULT)

1. How many minutes in an hour?

End of Chapter 17 — Mixed Exercise

Ten questions across the whole chapter, from easy to difficult.

1. What comes after Tuesday?
2. What month comes after April?
3. The hour hand points to 7, the minute hand to 12. What time is it?
4. Is breakfast in the morning A.M. or P.M.?
5. How many hours in a day?
6. How many minutes in an hour?
7. What comes after Saturday?
8. What month comes after February?
9. The hour hand points to 4, the minute hand to 12. What time is it?
10. Is breakfast in the morning A.M. or P.M.?



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CHAPTER 18

Patterns

Repeating Repeating patterns

Number Number patterns



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Repeating patterns



what comes next?

DEFINITIONS

Repeating pattern

A pattern that repeats the same order.

KEY FORMULAS

- Find the part that repeats
- A B A B → next is A

WORKED EXAMPLES

Example 1: A B A B _

- The pattern repeats A then B.

Find the repeat.

- After B comes A again.

Keep the order.

- **A.**

Final answer.

EXERCISES (EASY → DIFFICULT)

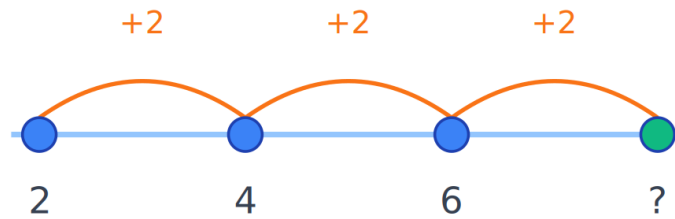
1. Pattern: A B A B _

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Number patterns



the rule is $+2$

next: $6 + 2 = 8$

DEFINITIONS

Pattern	A list of numbers that follows a rule.
Difference	The same amount added each time.

KEY FORMULAS

- Find the difference, then add it
- 2, 4, 6 $\rightarrow +2$, next is 8

WORKED EXAMPLES

Example 1: 2, 4, 6, __

- Difference: $4 - 2 = 2$.

Same each time.

- $6 + 2 = 8$.

Add the rule.

- **8.**

Final answer.

EXERCISES (EASY $\rightarrow$ DIFFICULT)

1. 3, 6, 9, __
2. 4, 5, 6, __
3. 3, 5, 7, __
4. 4, 7, 10, __
5. 4, 6, 8, __
6. 2, 5, 8, __
7. 5, 6, 7, __
8. 5, 7, 9, __



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9. 1, 2, 3, __

10. 1, 4, 7, __

End of Chapter 18 — Mixed Exercise

Ten questions across the whole chapter, from easy to difficult.

1. Pattern: A B A B __

2. 4, 5, 6, __

3. Pattern: A B A B __

4. 4, 7, 10, __

5. Pattern: A B A B __

6. 2, 5, 8, __

7. Pattern: A B A B __

8. 5, 7, 9, __

9. Pattern: A B A B __

10. 1, 4, 7, __





CHAPTER 19

Mixed Operations

Add Add or subtract?



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Add or subtract?



$$3 + 4 = 7$$

DEFINITIONS

Ate / gone

Words that mean subtract — the amount goes down.

KEY FORMULAS

- 'Ate' means take away → subtract
- Left = start – eaten

WORKED EXAMPLES

Example 1: Tom had 7 sweets. He ate 2. How many left?

- ▶ 'Ate' means take away.

Subtract.

- ▶ $7 - 2 = 5$.

Subtract.

- ▶ 5.

Final answer.

EXERCISES (EASY → DIFFICULT)

1. Tom had 11 sweets. He ate 5. How many left?
2. Tom had 10 sweets. He ate 2. How many left?
3. Tom had 8 sweets. He ate 6. How many left?
4. Tom had 16 sweets. He ate 8. How many left?
5. Tom had 10 sweets. He ate 7. How many left?
6. Tom had 6 sweets. He ate 4. How many left?
7. Tom had 8 sweets. He ate 4. How many left?
8. Tom had 9 sweets. He ate 2. How many left?
9. Tom had 9 sweets. He ate 3. How many left?
10. Tom had 10 sweets. He ate 3. How many left?



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End of Chapter 19 — Mixed Exercise

Ten questions across the whole chapter, from easy to difficult.

1. Tom had 11 sweets. He ate 5. How many left?
2. Tom had 10 sweets. He ate 2. How many left?
3. Tom had 8 sweets. He ate 6. How many left?
4. Tom had 16 sweets. He ate 8. How many left?
5. Tom had 10 sweets. He ate 7. How many left?
6. Tom had 6 sweets. He ate 4. How many left?
7. Tom had 8 sweets. He ate 4. How many left?
8. Tom had 9 sweets. He ate 2. How many left?
9. Tom had 9 sweets. He ate 3. How many left?
10. Tom had 10 sweets. He ate 3. How many left?





ANSWERS

Worked solutions to all exercises

Each answer gives the final result first, followed by the key working steps. For fully animated, step-by-step solutions, open the digital edition with the QR code on any page.

CHAPTER 1 — Counting and Number Patterns

Counting up to 10

1. 3
2. 8
3. 4
4. 7
5. 10
6. 5
7. 6
8. 2
9. 9

Count before a number

1. 5
2. 7
3. 1
4. 6
5. 3
6. 2
7. 4
8. 9
9. 8

Counting to 20

1. 13
2. 15
3. 17
4. 14
5. 18
6. 12
7. 20
8. 19
9. 16



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**Counting to 100**

1. 77
2. 90
3. 75
4. 100
5. 54
6. 87
7. 91
8. 52
9. 85
10. 49

Skip-counting by 2s

1. 10
2. 18
3. 12
4. 16
5. 20
6. 8
7. 6
8. 14
9. 22

Skip-counting by 5s

1. 30
2. 25
3. 15
4. 20
5. 35

Skip-counting by 10s

1. 60
2. 70
3. 50
4. 40
5. 30
6. 80

Even or odd numbers

1. odd
2. odd
3. odd
4. odd
5. odd
6. odd
7. odd
8. even
9. odd
10. odd

Number lines to 20

1. 9
2. 18
3. 15
4. 10





5. 17
6. 6
7. 8
8. 13
9. 12
10. 19

Ordinal numbers (1st-10th)

1. 5th
2. 1st
3. 6th
4. 3rd
5. 4th
6. 7th
7. 9th
8. 8th
9. 2nd
10. 10th

Roman numerals (I, V, X)

1. V
2. III
3. I
4. X
5. VIII
6. IV
7. IX
8. VII
9. VI
10. II

End of Chapter 1 — Mixed Exercise

1. 3
2. 7
3. 17
4. 100
5. 20
6. 35
7. 80
8. even
9. 12
10. 10th

CHAPTER 2 — Understanding Addition

Add with pictures

1. 5
2. 8
3. 4
4. 6
5. 6
6. 6
7. 6
8. 5
9. 3





10. 6

Adding 0

1. 8
2. 3
3. 4
4. 6
5. 5
6. 2
7. 1
8. 7
9. 9

Adding 1

1. 1
2. 9
3. 7
4. 10
5. 8
6. 2
7. 6
8. 3
9. 5
10. 4

Add doubles to 10

1. 2
2. 10
3. 6
4. 8
5. 4

End of Chapter 2 — Mixed Exercise

1. 5
2. 3
3. 7
4. 8
5. 6
6. 2
7. 6
8. 4
9. 3
10. 9

CHAPTER 3 — Addition Skill Builders

Adding 2

1. 7
2. 4
3. 11
4. 6
5. 12
6. 5
7. 8
8. 10





9. 2

10. 9

Adding 3

1. 3

2. 12

3. 6

4. 7

5. 4

6. 8

7. 9

8. 13

9. 10

10. 5

Adding 4

1. 13

2. 4

3. 8

4. 6

5. 11

6. 7

7. 10

8. 12

9. 14

10. 9

Adding 5

1. 14

2. 8

3. 13

4. 5

5. 12

6. 10

7. 11

8. 15

9. 7

10. 6

Adding 6

1. 11

2. 14

3. 7

4. 6

5. 9

6. 8

7. 13

8. 16

9. 15

10. 10



**Adding 7**

1. 14
2. 17
3. 12
4. 8
5. 11
6. 16
7. 7
8. 10
9. 15
10. 9

Adding 8

1. 12
2. 10
3. 13
4. 8
5. 18
6. 16
7. 17
8. 9
9. 11
10. 14

Adding 9

1. 16
2. 14
3. 11
4. 9
5. 15
6. 10
7. 17
8. 12
9. 19
10. 18

End of Chapter 3 — Mixed Exercise

1. 7
2. 12
3. 8
4. 5
5. 9
6. 16
7. 17
8. 12
9. 2
10. 5





CHAPTER 4 — Addition

Sums up to 10

1. 6
2. 8
3. 9
4. 3
5. 8
6. 8
7. 8
8. 8
9. 8
10. 3

Sums up to 20

1. 17
2. 18
3. 13
4. 6
5. 13
6. 16
7. 19
8. 19
9. 17
10. 16

Add three numbers

1. 10
2. 7
3. 12
4. 5
5. 11
6. 10
7. 8
8. 12
9. 8
10. 10

Add tens

1. 70
2. 100
3. 80
4. 70
5. 100
6. 90
7. 120
8. 80
9. 140
10. 140



**Find the missing addend**

1. 1
2. 0
3. 0
4. 4
5. 3
6. 6
7. 0
8. 6
9. 3
10. 4

Word problems: addition

1. 4
2. 9
3. 8
4. 8
5. 10
6. 7
7. 11
8. 11
9. 8
10. 9

End of Chapter 4 — Mixed Exercise

1. 6
2. 18
3. 12
4. 70
5. 3
6. 7
7. 8
8. 19
9. 8
10. 140

CHAPTER 5 — Understanding Subtraction**Subtract with pictures**

1. 0
2. 5
3. 1
4. 0
5. 0
6. 1
7. 1
8. 1
9. 2
10. 1



**Subtracting 0**

1. 3
2. 5
3. 4
4. 9
5. 8
6. 10
7. 6
8. 7
9. 1
10. 2

Subtracting 1

1. 6
2. 4
3. 2
4. 9
5. 0
6. 5
7. 1
8. 3
9. 8
10. 7

Subtract doubles

1. 2
2. 5
3. 1
4. 3
5. 4

End of Chapter 5 — Mixed Exercise

1. 0
2. 5
3. 2
4. 3
5. 0
6. 10
7. 1
8. 4
9. 2
10. 2

CHAPTER 6 — Subtraction Skill Builders**Subtracting 1**

1. 3
2. 9
3. 4
4. 7
5. 8
6. 2
7. 5
8. 0
9. 1





10. 6

Subtracting 2

1. 4
2. 10
3. 8
4. 7
5. 3
6. 6
7. 0
8. 5
9. 9
10. 2

Subtracting 3

1. 1
2. 7
3. 8
4. 9
5. 4
6. 3
7. 0
8. 6
9. 5
10. 10

Subtracting 4

1. 6
2. 10
3. 7
4. 3
5. 2
6. 5
7. 8
8. 4
9. 1
10. 9

Subtracting 5

1. 9
2. 3
3. 0
4. 6
5. 5
6. 1
7. 4
8. 8
9. 10
10. 7

Subtracting 6

1. 7
2. 8
3. 3
4. 6
5. 1





6. 0
7. 5
8. 4
9. 2
10. 9

Subtracting 7

1. 8
2. 4
3. 10
4. 3
5. 0
6. 1
7. 6
8. 7
9. 9
10. 2

Subtracting 8

1. 1
2. 6
3. 4
4. 3
5. 10
6. 2
7. 8
8. 9
9. 0
10. 7

Subtracting 9

1. 0
2. 4
3. 2
4. 3
5. 10
6. 6
7. 7
8. 1
9. 8
10. 9

End of Chapter 6 — Mixed Exercise

1. 3
2. 10
3. 8
4. 3
5. 5
6. 0
7. 6
8. 9
9. 8
10. 6





CHAPTER 7 — Subtraction

Subtract within 10

1. 2
2. 0
3. 0
4. 1
5. 2
6. 1
7. 3
8. 4
9. 1
10. 4

Subtract within 20

1. 10
2. 8
3. 5
4. 8
5. 12
6. 9
7. 1
8. 16
9. 13
10. 17

Find the missing subtrahend

1. 2
2. 7
3. 1
4. 5
5. 3
6. 1
7. 6
8. 3
9. 6
10. 3

Word problems: subtraction

1. 3
2. 1
3. 4
4. 4
5. 2
6. 4
7. 5
8. 2
9. 2
10. 7



**End of Chapter 7 — Mixed Exercise**

1. 2
2. 8
3. 1
4. 4
5. 2
6. 9
7. 6
8. 2
9. 1
10. 17

CHAPTER 8 — Comparing**Compare numbers up to 10**

1. $<$
2. $>$
3. $>$
4. $<$
5. $<$
6. $>$
7. $>$
8. $<$
9. $>$
10. $<$

Compare numbers up to 100

1. $>$
2. $>$
3. $>$
4. $<$
5. $<$
6. $>$
7. $>$
8. $>$
9. $>$
10. $<$

Greatest and least

1. 23
2. 26
3. 21
4. 30
5. 18
6. 12
7. 29
8. 28
9. 20
10. 20



**Order numbers smallest to biggest**

1. 14,16,18
2. 2,4,12
3. 2,16,18
4. 3,4,8
5. 5,5,11
6. 13,16,20
7. 13,13,17
8. 2,11,18
9. 11,13,17
10. 7,13,19

End of Chapter 8 — Mixed Exercise

1. $<$
2. $>$
3. 21
4. 3,4,8
5. $<$
6. $>$
7. 29
8. 2,11,18
9. $>$
10. $<$

CHAPTER 9 — Estimation**Estimate to nearest 10**

1. 50
2. 50
3. 80
4. 20
5. 40
6. 60
7. 60
8. 40
9. 50
10. 20

End of Chapter 9 — Mixed Exercise

1. 50
2. 50
3. 80
4. 20
5. 40
6. 60
7. 60
8. 40
9. 50
10. 20





CHAPTER 10 — 2D Shapes

Name the shape from sides

1. pentagon
2. hexagon
3. triangle
4. square

Sides of a shape

1. 4
2. 6
3. 5
4. 3

Vertices (corners) of a shape

1. 3
2. 4
3. 6
4. 5

Symmetry — does it have a line?

1. yes
2. yes
3. yes
4. yes

End of Chapter 10 — Mixed Exercise

1. pentagon
2. 6
3. 6
4. yes
5. square
6. 3
7. 5
8. yes
9. hexagon
10. 4

CHAPTER 11 — 3D Shapes

Faces of a 3D shape

1. 3
2. 2
3. 6

Edges of a cube

1. 12

Vertices of a cube

1. 8



**Match real-life objects to 3D shapes**

1. sphere
2. cube
3. cone
4. cylinder

End of Chapter 11 — Mixed Exercise

1. 3
2. 12
3. 8
4. cylinder
5. 6
6. 12
7. 8
8. sphere
9. 2
10. 12

CHAPTER 12 — Spatial Sense

Above, below, beside

1. above

Left and right

1. left

Inside and outside

1. inside

Top, middle, bottom

1. middle

End of Chapter 12 — Mixed Exercise

1. above
2. left
3. inside
4. middle
5. above
6. left
7. inside
8. middle
9. above
10. left

CHAPTER 13 — Sorting and Classifying

Sort by colour

1. red

Sort by size

1. size



**End of Chapter 13 — Mixed Exercise**

1. red
2. size
3. red
4. size
5. red
6. size
7. red
8. size
9. red
10. size

CHAPTER 14 — Data and Graphs**Read a tally chart**

1. 2
2. 8
3. 7
4. 5
5. 3
6. 6
7. 4

Read a bar graph

1. 3
2. 8
3. 9
4. 4
5. 5
6. 6
7. 7

Most and least on a graph

1. apples

End of Chapter 14 — Mixed Exercise

1. 2
2. 8
3. apples
4. 5
5. 5
6. apples
7. 4
8. 7
9. apples
10. 8





CHAPTER 15 — Measurement

Long and short

1. long

Tall and short

1. tall

Heavy and light

1. light

Centimetres

1. 6
2. 9
3. 4
4. 8
5. 3
6. 6
7. 3
8. 8
9. 9
10. 7

Metres

1. 100

End of Chapter 15 — Mixed Exercise

1. long
2. tall
3. light
4. 8
5. 100
6. long
7. tall
8. light
9. 9
10. 100

CHAPTER 16 — Money

Coin values (cents)

1. 50
2. 20
3. 5
4. 10

Add coin values

1. 100
2. 30
3. 30
4. 70
5. 20
6. 60





7. 70
8. 60
9. 40

Rand notes

1. 1
2. 2
3. 5
4. 10

Making change

1. 6
2. 1
3. 8
4. 3
5. 5
6. 4
7. 7
8. 2

End of Chapter 16 — Mixed Exercise

1. 50
2. 30
3. 5
4. 3
5. 10
6. 60
7. 10
8. 2
9. 20
10. 40

CHAPTER 17 — Time**Days of the week**

1. Wednesday
2. Thursday
3. Friday
4. Tuesday
5. Saturday
6. Sunday

Months of the year

1. April
2. May
3. June
4. July
5. February
6. August
7. December
8. March
9. September
10. October



**Read clocks (hour)**

1. 11:00
2. 2:00
3. 7:00
4. 3:00
5. 10:00
6. 1:00
7. 8:00
8. 5:00
9. 4:00
10. 9:00

A.M. or P.M.

1. A.M.

Hours in a day

1. 24

Minutes in an hour

1. 60

End of Chapter 17 — Mixed Exercise

1. Wednesday
2. May
3. 7:00
4. A.M.
5. 24
6. 60
7. Sunday
8. March
9. 4:00
10. A.M.

CHAPTER 18 — Patterns**Repeating patterns**

1. A

Number patterns

1. 12
2. 7
3. 9
4. 13
5. 10
6. 11
7. 8
8. 11
9. 4
10. 10



**End of Chapter 18 — Mixed Exercise**

1. A
2. 7
3. A
4. 13
5. A
6. 11
7. A
8. 11
9. A
10. 10

CHAPTER 19 — Mixed Operations

Add or subtract?

1. 6
2. 8
3. 2
4. 8
5. 3
6. 2
7. 4
8. 7
9. 6
10. 7

End of Chapter 19 — Mixed Exercise

1. 6
2. 8
3. 2
4. 8
5. 3
6. 2
7. 4
8. 7
9. 6
10. 7





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