SAMPEL PERCUMA

# Cambridge Primary Maths Stage 5 (Year 5) Workbook + Answer Key

## Set penuh: Cambridge Primary

Year 5 Maths

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- Cambridge Mathematics Year 5 · Google Drive

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PRIMARY MATHEMATICS · PRACTICE WORKBOOK

# Cambridge Primary Mathematics

## Stage 5

Topic practice for Year 5 (ages 9–10)

- 15 topics across Number, Geometry & Measure, Statistics & Probability
- 158 original practice questions, easy to challenging
- End-of-stage mixed test (34 marks)
- Full answer key with worked answers

Follows the Cambridge Primary Mathematics curriculum framework (0096), Stage 5.
Independent practice material — not an official Cambridge publication. All questions are original.
Metric units throughout; money in RM (ringgit) and sen.

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Follows Cambridge Primary Mathematics curriculum framework (0096), Stage 5. The codes (e.g. 5Nf.04) are the framework's learning-objective codes.

Not an official Cambridge publication. Questions written independently for practice.

Number 5Np.01–5Np.05

# Topic 5: Decimals and place value

**Remember**

- In 5.82 the 8 is worth 8 tenths (0.8) and the 2 is worth 2 hundredths (0.02).
- × 10, × 100, × 1000 move digits 1, 2, 3 places left. ÷ moves them right.
- Round to the nearest whole number by looking at the tenths digit: 5 or more → round up.

1. What is the value of each digit in 3.47?

   Answer: _____

2. Write as decimals.
   (a) 3 tenths
   (b) 45 hundredths
   (c) 2 ones and 6 hundredths

   Answer: _____

3. Calculate.
   5.6 × 10 = _____ 0.8 × 100 = _____ 47 ÷ 10 = _____
   3.5 ÷ 10 = _____ 23 × 1000 = _____ 64 000 ÷ 1000 = _____

4. Partition 4.38 into ones, tenths and hundredths.

   Answer: _____

5. Fill in the missing number: 2.75 = 2 + 0.6 + _____

6. Round each number to the nearest whole number.
   6.4 12.5 9.8 0.6

   Answer: _____

7. Write < or >.
   (a) 0.7 □ 0.4
   (b) 3.9 □ 4.2

   Answer: _____

8. Order from smallest to largest.
   2.3 0.8 1.9 2.0 1.2

   Answer: _____

Number 5Nf.11

# Topic 8: Ratio and proportion

**Remember**

- A **ratio** compares part to part: 2 cats to 7 dogs is 2 : 7.
- A **proportion** compares part to whole: 2 out of 9 pets are cats, so $\frac{2}{9}$ are cats.

1. A bag has 3 red beads and 5 blue beads.
   (a) What is the ratio of red to blue?
   (b) What proportion of the beads are red?

   Answer: _____

2. A necklace repeats the pattern ● ● ○. It has 12 beads.
   (a) What is the ratio of black to white beads?
   (b) How many white beads are there?

   Answer: _____

3. A class has 14 boys and 16 girls.
   (a) What is the ratio of boys to girls?
   (b) What proportion of the class are girls?

   Answer: _____

4. A fruit bowl has 4 mangoes and 6 bananas.
   (a) What is the ratio of mangoes to bananas?
   (b) What proportion of the fruit are mangoes?

   Answer: _____

5. A necklace has the pattern ● ● ○ ● ● ○ ● ● ○. Is each sentence about a ratio or a proportion?
   (a) For every 2 black beads there is 1 white bead.
   (b) 2 out of every 3 beads are black.

   Answer: _____

6. A box has 5 apples and 15 oranges.
   (a) What proportion of the fruit are apples?
   (b) What is the ratio of apples to oranges?

   Answer: _____

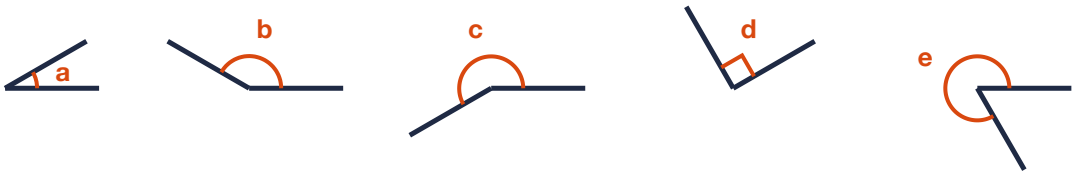
Geometry and Measure 5Gg.07–5Gg.08

# Topic 11: Angles

**Remember**

- **Acute** < 90° · **right** = 90° · **obtuse** between 90° and 180° · **reflex** between 180° and 360°.
- Angles on a straight line add up to **180°**.

1. Is each angle acute, right, obtuse or reflex?

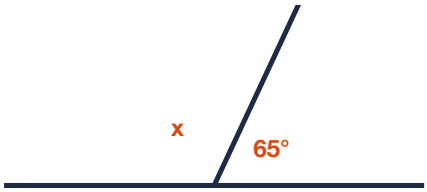



Answer: _____

2. Order the angles in Question 1 from smallest to largest.

Answer: _____

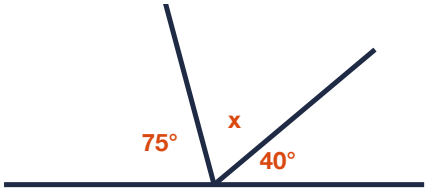
3. Find the missing angle x.




*Not drawn to scale.*

Answer: _____

4. Find the missing angle x.




Answer: _____

5. Two equal angles sit on a straight line. How big is each one?

Answer: _____

Statistics and Probability 5Ss.01–5Ss.04

# Topic 14: Data, mode and median

**Remember**

- **Continuous** data are measured (height, time). **Discrete** data are counted. **Categorical** data are groups.
- **Mode** = the value that appears most often. **Median** = the middle value when the data are in order.
- With an even number of values, the median is halfway between the two middle values.

1. Find the mode and the median: 4, 7, 3, 7, 5, 9, 7, 2, 6

   Answer: _____

2. Find the mode and the median: 12, 15, 11, 18, 15, 20

   Answer: _____

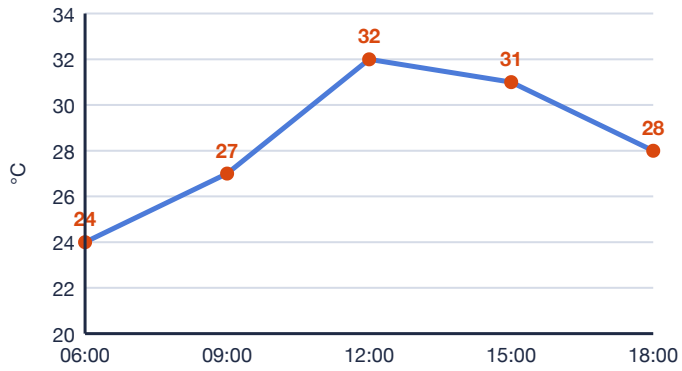
3. Shoe sizes of 20 children.

| size | 1 | 2 | 3 | 4 |
|---|---|---|---|---|
| children | 3 | 5 | 8 | 4 |

   Find the mode and the median shoe size.

   Answer: _____

4. The temperature in a town during one day.




   (a) What was the highest temperature, and when?
   (b) How much did it rise from 06:00 to 12:00?
   (c) After which time did the temperature start to fall?

   Answer: _____

# End-of-Stage Mixed Test — Stage 5

34 marks · about 45 minutes · show your working

Name: _____ Date: _____ Score: _____ / 34

1. Count back in steps of 7: 12, 5, _____, _____ [1 mark]

2. Calculate –6 + 15. [1 mark]

   Answer: _____

3. Calculate 7 + 3 × 6. [1 mark]

   Answer: _____

4. Calculate 4307 – 1589. [1 mark]

   Answer: _____

5. Calculate 236 × 17. [2 marks]

   Answer: _____

6. Calculate 684 ÷ 6. [1 mark]

   Answer: _____

7. Write the two prime numbers between 30 and 40. [1 mark]

   Answer: _____

8. Is 312 divisible by 8? Show how you know. [1 mark]

   Answer: _____

9. What is the value of the digit 4 in 5.04? [1 mark]

   Answer: _____

10. 3.7 × 100 = _____ 52 ÷ 100 = _____ [2 marks]

11. Round 14.5 to the nearest whole number. [1 mark]

    Answer: _____

12. Find $\frac{2}{3}$ of 27. [1 mark]

    Answer: _____

# Answer Key — worked answers

Estimates: any sensible rounding is accepted. Where a question has more than one correct answer, one example is shown.

## Topic 1: Counting, sequences and unknowns

| | | |
|---|---|---|
| 1 | **2, –4, –10** | 8–6=2, 2–6=–4, –4–6=–10. |
| 2 | **–25, 0, 25** | |
| 3 | **500, 250, 0, –250** | |
| 4 | **A = –15, B = 10** | Each mark is worth 5. |
| 5 | **▲ = 12, ■ = 8** | Two numbers that add to 20 and differ by 4: 12 + 8 = 20, 12 – 8 = 4. |
| 6 | **★ = 7** | 5 + 5 = 10; 17 – 10 = 7. |
| 7 | **39** | Add 4 each time. 10th term = 3 + 9 × 4 = 39 (or 10 × 4 – 1). |
| 8 | **150** | Each term is 6 × its position: 6 × 25 = 150. |
| 9 | **62** | 5 + 19 × 3 = 5 + 57 = 62. |
| 10 | **15, 21** | Add 5, then add 6: 10 + 5 = 15, 15 + 6 = 21. |
| 11 | **1 and 36** | Squares: 1, 4, 9, 16, 25, 36, 49. Triangular: 1, 3, 6, 10, 15, 21, 28, 36, 45. |
| 12 | **5 °C** | Count on 7 to reach 0, then 5 more. |

## Topic 2: Integers, laws of arithmetic and order of operations

| | | |
|---|---|---|
| 1 | **5, –5, –4, –8** | Use a number line. |
| 2 | **8 °C** | –6 + 14 = 8. |
| 3 | **floor –2** | 3 – 5 = –2. |
| 4 | **estimate 8300 (or 8000); 8252** | 4300 + 4000 = 8300. |
| 5 | **estimate 3300 (or 3000); 3255** | Check: 3255 + 2748 = 6003. |
| 6 | **(a) 17 (b) 32 (c) 17 (d) 6** | (a) 3×4 first. (b) brackets first. (c) 12÷4=3 first. (d) 6–3=3, 18÷3=6. |
| 7 | **(a) 1300 (b) 148** | (a) 25 × 4 = 100, × 13 = 1300. (b) 37 + 63 = 100, + 48 = 148. |
| 8 | **686** | 7 × 100 – 7 × 2 = 700 – 14 = 686. |
| 9 | **(6 + 4) × 5 = 50** | 10 × 5 = 50. |
| 10 | **RM2805** | 2450 – 875 = 1575; 1575 + 1230 = 2805. |
| 11 | **No, it is 4** | Multiply first: 2 × 3 = 6; 10 – 6 = 4. Ming did 10 – 2 first. |

TAMAT SAMPEL

# Suka sampel ini?

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