SAMPEL PERCUMA

Cambridge Primary Maths Stage 6 (Year 6) Workbook + Answer Key

Set penuh: Cambridge Primary

Year 6 Maths

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- Cambridge Mathematics Year 6 · Google Drive

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PRIMARY MATHEMATICS · PRACTICE WORKBOOK

Cambridge Primary Mathematics

Stage 6

Topic practice for Year 6 (ages 10–11)

- 17 topics across Number, Geometry & Measure, Statistics & Probability
- 162 original practice questions, easy to challenging
- Decimals, fractions, percentages, ratio, angles, coordinates, averages
- End-of-stage mixed test (36 marks)
- Full answer key with worked answers

Follows the Cambridge Primary Mathematics curriculum framework (0096), Stage 6.
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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Check your progress

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Follows Cambridge Primary Mathematics curriculum framework (0096), Stage 6. The codes (e.g. 6Nc.01) are the framework's learning-objective codes.

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

Number 6Nf.01–6Nf.03, 6Nf.05–6Nf.06

Topic 6: Fractions

Remember

- Improper ↔ mixed: $\frac{17}{5} = 17 \div 5 = 3\frac{2}{5}$.
- Simplest form: divide top and bottom by their highest common factor.
- Different denominators: change to a common denominator first: $\frac{1}{2} + \frac{1}{3} = \frac{3}{6} + \frac{2}{6}$.
- Fraction × whole number: multiply the numerator. Fraction ÷ whole number: multiply the denominator (or divide the numerator).

1. Convert.
   (a) $\frac{17}{5}$ to a mixed number
   (b) $\frac{23}{4}$ to a mixed number
   (c) $2\frac{3}{8}$ to an improper fraction

   Answer: _____

2. Write $7 \div 3$ as a mixed number.

   Answer: _____

3. Write in simplest form.
   (a) $\frac{12}{18}$
   (b) $\frac{15}{20}$
   (c) $\frac{16}{40}$

   Answer: _____

4. Find:
   (a) $\frac{3}{5}$ of 45
   (b) $\frac{5}{4}$ of 36
   (c) $\frac{7}{8}$ of 96

   Answer: _____

5. Add.
   (a) $\frac{1}{2} + \frac{1}{3}$
   (b) $\frac{3}{4} + \frac{2}{5}$

   Answer: _____

Number 6Nf.12–6Nf.13

Topic 9: Ratio and proportion

Remember

- **Direct proportion**: if one quantity doubles, the other doubles too. Find the value of 1 first.
- A **ratio** compares parts: red : blue = 2 : 3 means 2 red for every 3 blue.
- Equivalent ratios: multiply or divide both parts by the same number: 4 : 6 = 2 : 3.

1. 3 pens cost RM4.50. How much do 7 pens cost?

   Answer: _____

2. A kuih recipe for 4 people uses 200 g flour, 2 eggs and 150 ml coconut milk. How much of each is needed for 10 people?

   Answer: _____

3. A bag has red and blue beads in the ratio 2 : 3. There are 20 beads. How many are red?

   Answer: _____

4. Fill in: 4 : 6 = 2 : 3 = _____ : 15

5. Write in simplest form.
   (a) 12 : 18
   (b) 25 : 10

   Answer: _____

6. In a club, for every 3 boys there are 4 girls. There are 21 boys. How many girls are there?

   Answer: _____

7. A car travels at a steady speed. Complete the table.

hours	1	2	5	?
km	60	120	?	480

8. 1 kg of potatoes costs RM6. 3 kg cost RM15. Is the cost in direct proportion to the mass? Explain.

   Answer: _____

Geometry and Measure 6Gg.09–6Gg.10

Topic 12: Angles and triangles

Remember

- acute < 90° · right = 90° · obtuse between 90° and 180° · reflex > 180°.
- Angles in a triangle add up to **180°**. On a straight line: 180°. Around a point: 360°.
- Isosceles triangle: two equal angles. Equilateral: all 60°.

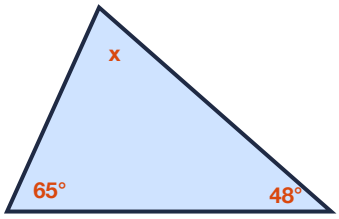
1. Classify each angle.
   (a) 35°
   (b) 90°
   (c) 128°
   (d) 210°

   Answer: _____

2. Find the third angle of each triangle.
   (a) 50° and 60°
   (b) 90° and 35°

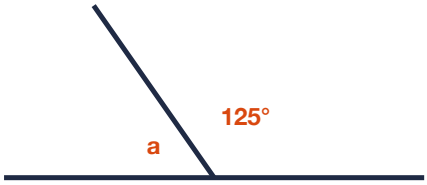
   Answer: _____

3. Find *x*.



   Answer: _____

4. Find *a*.



   Answer: _____

5. Three angles around a point are 140°, 95° and 70°. Find the fourth angle.

   Answer: _____

6. An isosceles triangle has a top angle of 40°. What are the other two angles?

   Answer: _____

Statistics and Probability 6Ss.03

Topic 15: Mode, median, mean and range

Remember

- **Mode**: most common value (there can be two — bimodal). **Median**: middle value when in order.
- **Mean**: total ÷ how many. **Range**: largest − smallest.
- Choose the average that fits: the median is not affected by one very large or very small value.

1. Data: 4, 8, 3, 8, 9, 6, 4
   Find the mode, median, mean and range.

   Answer: _____

2. Find the mean of 12, 15, 9 and 14.

   Answer: _____

3. Find the median of 3, 9, 4, 8, 10, 6.

   Answer: _____

4. Daily top temperatures: 31 °C, 28 °C, 33 °C, 26 °C, 30 °C. Find the range.

   Answer: _____

5. The mean of 5 numbers is 8. Four of them are 6, 9, 7 and 10. What is the fifth number?

   Answer: _____

6. A shoe shop wants to know which size to order most of. Which average should it use?

   Answer: _____

7. Monthly pay of five workers: RM1500, RM1600, RM1550, RM1700, RM9000. Which average describes a typical worker better: mean or median? Explain.

   Answer: _____

End-of-Stage Mixed Test — Stage 6

36 marks · about 60 minutes · show your working

Name: _____ Date: _____ Score: _____ / 36

1. Count back in steps of 0.4: 1.0, 0.6, _____, _____ [1 mark]

2. Find the 15th term of 7, 11, 15, 19 … [2 marks]

   Answer: _____

3. Calculate –9 + 4 and 6 – 11. [1 mark]

   Answer: _____

4. Calculate 7 + 3 × (8 – 2). [1 mark]

   Answer: _____

5. Calculate 2345 × 6. [1 mark]

   Answer: _____

6. Calculate 374 × 25. [2 marks]

   Answer: _____

7. Calculate 888 ÷ 24. [2 marks]

   Answer: _____

8. Is 2346 divisible by 6? Explain. [1 mark]

   Answer: _____

9. Write the cube numbers between 20 and 130. [1 mark]

   Answer: _____

10. What is the value of the 8 in 5.083? [1 mark]

    Answer: _____

11. Round 16.47 to the nearest tenth. [1 mark]

    Answer: _____

12. Write $\frac{18}{24}$ in simplest form. [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: Sequences, negative numbers and letters

1	**1.8, 2.1, 2.4**	
2	**$1\frac{1}{2}$, $1\frac{1}{4}$, 1**	
3	**1, –6, –13**	Keep subtracting 7 past zero.
4	**0.95, 1, 1.05**	0.9 = 0.90; 0.90 + 0.05 = 0.95.
5	**(a) 27 (b) 27**	(a) 42 – 15. (b) 19 + 8.
6	**e.g. 5 and 7, 3 and 9, 12 and 0**	Any pairs that add to 12.
7	**250**	5 × 50 = 250.
8	**(a) term = 3 × position + 1 (b) 61**	The terms go up in 3s like the 3 times table, but 1 more. 3 × 20 + 1 = 61.
9	**10th term = 60; term 90 is at position 15**	Rule: term = 6 × position. 90 ÷ 6 = 15.
10	**37**	6 × 6 = 36, + 1 = 37.
11	**31**	Each new square adds 3: 3 × 10 + 1 = 31.

Topic 2: Integers and order of operations

1	**(a) 5 (b) –5 (c) –8 (d) –4**	
2	**17 °C**	From –6 to 0 is 6, from 0 to 11 is 11: 6 + 11 = 17.
3	**–12, –3, –1, 0, 5**	
4	**(a) 17 (b) 17 (c) 32 (d) 4**	× and ÷ before + and –; brackets first.
5	**(a) 19 (b) 2**	(a) 2 × 8 + 3. (b) 8 – 6.
6	**(a) (6 + 4) × 5 = 50 (b) (24 – 8) ÷ 4 = 4**	
7	**(a) 3700 (b) 176**	(a) 25 × 4 = 100, × 37. (b) 48 + 52 = 100, + 76.
8	**estimate –30 + 60 = 30; answer 33**	
9	**4**	She subtracted first. Multiply first: 2 × 3 = 6, then 10 – 6 = 4.
10	**floor 5**	–2 + 7 = 5.

Topic 3: Multiplying and dividing whole numbers

1	**24 192**	3000 × 7 = 21 000; 400 × 7 = 2800; 50 × 7 = 350; 6 × 7 = 42 → 24 192.

TAMAT SAMPEL

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