SAMPEL PERCUMA

Cambridge Primary Maths Decimals and Percentages Worksheets + Answer Key

Set penuh: Cambridge Primary

Maths Year 1–6

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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.

Number 5Nf.04, 5Nf.07–5Nf.10

Topic 7: Decimals and percentages

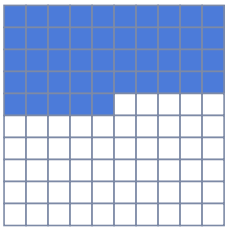
Remember

- $\frac{1}{2} = 0.5 = 50\%$ · $\frac{1}{10} = 0.1 = 10\%$ · $\frac{1}{4} = 25\%$ · $\frac{1}{5} = 0.2 = 20\%$
- A percentage is a fraction out of 100: $53\% = \frac{53}{100}$.
- Line up the decimal points to add or subtract: 5.36 + 2.41.
- 3.2 × 4: think 32 × 4 = 128, so 3.2 × 4 = 12.8.

1. Complete the table.

fraction	decimal	percentage
$\frac{1}{2}$		
	0.3	
		70%
$\frac{1}{5}$		

2. What percentage of the hundred square is shaded? Write it as a fraction too.



Answer: _____

3. Write each percentage as a fraction with denominator 100: 37%, 9%, 60%

Answer: _____

4. What percentage of this bar is shaded?



Answer: _____

5. Write <, > or =.
   (a) 0.4 □ 35%
   (b) $\frac{3}{5}$ □ 0.6
   (c) 45% □ $\frac{1}{2}$

Answer: _____

6. Order from smallest to largest: 0.6, 45%, $\frac{7}{10}$, 0.5

   Answer: _____

7. Calculate.
   (a) 3.6 + 2.7
   (b) 8.45 – 2.38
   (c) 12.5 – 4.8

   Answer: _____

8. Estimate, then calculate: 4.75 + 3.18

   Answer: _____

9. Calculate.
   (a) 2.4 × 3
   (b) 6.8 × 5
   (c) 0.9 × 7

   Answer: _____

10. A pencil costs RM1.35 and an eraser costs RM0.80. How much do they cost together? What is the change from RM5?

    Answer: _____

11. One bottle holds 1.5 litres. How much do 6 bottles hold?

    Answer: _____

12. Aiman runs 2.4 km every day for 5 days. How far does he run altogether?

    Answer: _____

Number 6Nf.04, 6Nf.07–6Nf.08

Topic 7: Percentages and comparing fractions, decimals, percentages

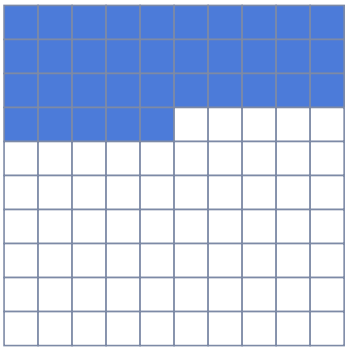
Remember

- Per cent means “out of 100”: $35\% = \frac{35}{100} = 0.35$.
- $10\% = \div 10 \cdot 1\% = \div 100 \cdot 5\% =$ half of $10\% \cdot 25\% = \div 4$.
- To compare fractions, decimals and percentages, change them all to the same form (decimals are easy).

1. Complete the table.

fraction	decimal	percentage
$\frac{1}{2}$		
	0.25	
$\frac{3}{5}$		
		7%

2. What percentage of the grid is shaded? What percentage is not shaded?



Answer: _____

3. Find:
   (a) 25% of 80
   (b) 10% of 350
   (c) 1% of 600
   (d) 45% of 200
   (e) 15% of 60

Answer: _____

4. Write <, > or =.
   (a) 0.6 _____ $\frac{3}{5}$
   (b) 45% _____ 0.405
   (c) $\frac{7}{8}$ _____ 0.85

5. Order from smallest to largest: 0.7, 65%, $\frac{3}{4}$, 0.68

   Answer: _____

6. Order from smallest to largest: $\frac{2}{3}$, $\frac{3}{5}$, $\frac{7}{10}$

   Answer: _____

7. Ali scored 18 out of 25 in a test. Mei scored 70%. Who did better?

   Answer: _____

8. A shirt costs RM40. It has 15% off. What is the new price?

   Answer: _____

9. What percentage of 50 is 20?

   Answer: _____

Number 6Nf.09–6Nf.11

Topic 8: Calculating with decimals

Remember

- Line up the decimal points when adding or subtracting. Fill gaps with 0: 9 = 9.00.
- Multiply as whole numbers, then put the point back: 2.45 × 6 → 245 × 6 = 1470 → 14.70.
- Estimate first to check where the point goes.

1. Calculate.
   (a) 4.7 + 3.85
   (b) 12.06 – 4.8
   (c) 9 – 3.47

   Answer: _____

2. Estimate 6.92 + 3.15, then calculate it.

   Answer: _____

3. Calculate.
   (a) 3.6 × 4
   (b) 2.45 × 6
   (c) 0.08 × 9

   Answer: _____

4. Calculate.
   (a) 1.25 × 12
   (b) 4.3 × 15

   Answer: _____

5. Calculate.
   (a) 8.4 ÷ 4
   (b) 9.75 ÷ 5
   (c) 14.4 ÷ 6

   Answer: _____

6. A ribbon is 6.5 m long. Siti cuts 4 pieces, each 1.35 m long. How much ribbon is left?

Answer: _____

7. 3 notebooks cost RM10.35. How much does one notebook cost?

Answer: _____

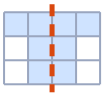
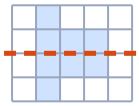
8. Petrol costs RM2.05 per litre. How much do 24 litres cost?

Answer: _____

9. Ali runs 2.75 km, then 3.4 km, then 1.85 km. How far does he run altogether?

Answer: _____

Topic 12: Position, direction, coordinates and reflection

1	**(a) library (b) east (c) 3 squares (d) the school**	
2	**north-east; north-east**	
3	**north; then south**	West → (quarter turn clockwise) → north → (half turn) → south.
4	**A (2, 3), B (5, 1), C (0, 4), D (4, 4)**	Across first, then up.
5	**She wrote up before across; B is (5, 1).**	The x-coordinate (across) comes first.
6	**(5, 1)**	Opposite sides are equal: it is below (5, 4) and level with (1, 1).
7		The shape touches the mirror, so the reflection touches it too.
8		Each square is flipped to the same distance below the line.

Topic 13: Collecting and showing data

1	**(a) durian (b) 26 (c) 7**	(b) 8 + 4 + 11 + 3 = 26. (c) 11 − 4 = 7.
2	**(a) Tuesday (b) 6 (c) 60**	(b) 15 − 9 = 6. (c) 12+18+9+15+6 = 60.
3	**4A, 15 more**	60 − 45 = 15.
4	**(a) 18 (b) 44**	Car 12, bus 18, walk 8, bicycle 6. 12 + 18 + 8 + 6 = 44.
5	**multiples of 2 only: 4 · both: 12 · multiples of 3 only: 9, 15 · outside: 7**	12 is a multiple of 2 and of 3; 7 is a multiple of neither.
6	**even & more than 50: 74 · even & not more: 36, 12 · odd & more than 50: 51, 89, 63 · odd & not more: none**	
7	**(a) 15 (b) 1**	3 + 6 + 4 + 2 = 15.
8	**(a) categorical (b) discrete (c) categorical (d) discrete**	Counts are discrete; names/groups are categorical.
9	**Each child's favourite drink; a tally chart then a bar chart or pictogram**	Any sensible method that collects one answer per child and compares the groups.

Topic 14: Chance

1	**(a) impossible (b) certain (c) maybe (even chance) (d) likely**	(d) 5 of the 6 numbers are less than 6.
2	**(a) red (b) impossible**	3 of the 4 equal parts are red; there is no yellow.

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