

Year 6 Maths Practice Paper 3

This paper covers: Place value, Addition, subtraction, multiplication and division, Fractions, Ratio, Decimals, Fractions, decimals and percentages, Algebra, Shape, Position and direction, Converting units, Area, perimeter and volume, Statistics.

TIME ALLOWED

35 minutes

TOTAL MARKS

29

QUESTIONS

26

Name _____

Class _____ Date _____

INSTRUCTIONS

- Use a pencil or a black pen.
- Answer every question in the space given.
- You may not use a calculator.
- Show your working. Some marks are given for a correct method, even when the answer is wrong.

INFORMATION

- The marks for each question are shown in brackets, for example [1 mark].
- The questions start easier and get harder as you go.
- Check your answers if you have time at the end.

FOR THE MARKER

 Score _____ **out of 29**

Percentage _____ %

01 Questions

Answer every question. Show your working.

- 1** Simplify $\frac{3}{9}$ to its lowest terms. Write your answer as a fraction.

[1 mark]

ANSWER

- 2** Work out $\frac{2}{3} + \frac{1}{6}$. Give your answer in its simplest form. Write your answer as a fraction.

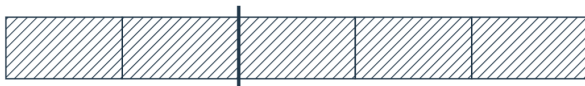
[1 mark]

ANSWER

- 3** The bar is cut in the ratio 2 : 3. Out of how many equal parts is the blue share taken?

[1 mark]

2 : 3



ANSWER

- 4** Match each thing to the unit it is measured in. Draw a line from each item on the left to its match on the right.

[1 mark]

a spoonful of medicine

•

• millilitres

the distance between two towns

•

• grams

the mass of an apple

•

• kilometres

- 5 A number is marked on the line. Which whole number is it closer to? [1 mark]



ANSWER

- 6 To add $\frac{2}{4}$ to a fraction in eighths, first cut the bar so it shows $\frac{2}{4}$ in eighths. Draw lines to cut each part of the bar. [1 mark]



- 7 What write of angle is this? Circle your answer. [1 mark]
- ☐ reflex ☐ obtuse ☐ right angle ☐ acute



- 8 The drawing is 5 cm long and 1 cm stands for 5 m. How long is the real wall, in metres? [1 mark]



1 cm stands for 5 m

ANSWER

- 9 Every pair of numbers shares the factor 1. What is the next smallest factor that 30 and 12 share? [1 mark]

ANSWER

- 10 What is the smallest number that is a multiple of both 8 and 10? [1 mark]

ANSWER

- 11 Which sign goes between $\frac{1}{4}$ and $\frac{3}{8}$? Circle your answer. [1 mark]

☐ =

☐ <

☐ >

- 12 65 is not prime. What is its smallest factor apart from 1? [1 mark]

ANSWER

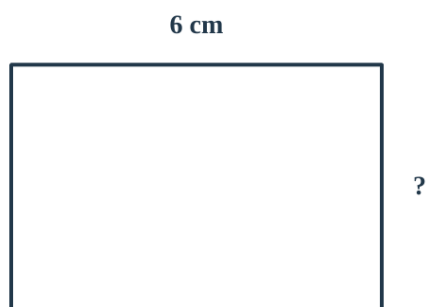
- 13 What is 4 squared? [1 mark]

ANSWER

- 14 Three sectors of a pie chart are 135° , 70° and 45° . What is the fourth angle, in degrees? [1 mark]

ANSWER

- 15 This rectangle has a perimeter of 24 centimetres and is 6 centimetres long. What is its area in square centimetres? [1 mark]

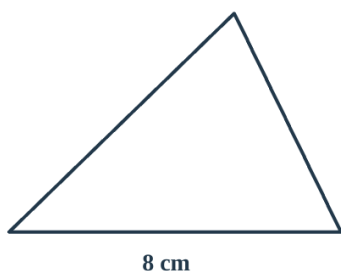


ANSWER

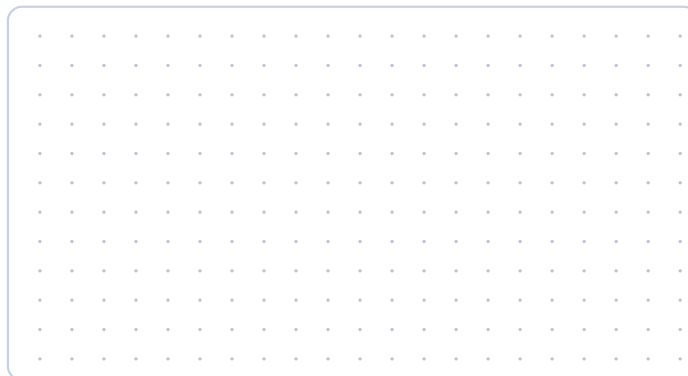
- 16 The wall shows $\frac{2}{10}$ and $\frac{2}{8}$ shaded. Which is bigger? Circle your answer. [1 mark]
- ☐ $\frac{2}{10}$ ☐ $\frac{2}{8}$ ☐ They are equal



- 17 This triangle has an area of 32 square centimetres and a base of 8 centimetres. What is its perpendicular height in centimetres? [1 mark]



perpendicular height ? cm



ANSWER

- 18 Complete the written method for 3178×32 . Write the digits in the boxes. [1 mark]

$$\begin{array}{r}
 3178 \\
 \times \quad 32 \\
 \hline
 \begin{array}{r}
 \boxed{}\boxed{}\boxed{}\boxed{} \\
 \boxed{}\boxed{}\boxed{}\boxed{} \\
 \hline
 \boxed{}\boxed{}\boxed{}\boxed{}\boxed{}\boxed{}
 \end{array}
 \end{array}$$

- 19 Complete the bus stop for $8232 \div 7$. Write the digits in the boxes. [1 mark]

$$\begin{array}{r}
 \boxed{}\boxed{}\boxed{}\boxed{} \\
 7 \overline{) 8 \boxed{} 2 \boxed{} 3 \boxed{} 2}
 \end{array}$$

- 20** Two numbers go through a machine that does $+ 1$ then $\times 4$. The outputs are 12 and 28. [2 marks]
What is the sum of the two inputs?

ANSWER

- 21** A rectangle has corners (1, 2), (5, 2), (5, 4) and (1, 4). What is its perimeter? [2 marks]

ANSWER

- 22** A machine does $\times 4$ then $+ 6$. The output is 42. What was the input? [2 marks]

ANSWER

- 23** Which is larger: $1\frac{1}{5} + 1\frac{3}{5}$, or 3? Circle your answer. [1 mark]
☐ 3 ☐ They are equal ☐ $1\frac{1}{5} + 1\frac{3}{5}$

- 24** Match each divisibility test with the check it asks you to make. Draw a line from each test to its check. [1 mark]

Divides by 9	•	• It ends in 0
Divides by 4	•	• Its last two digits make a multiple of 4
Divides by 10	•	• Its digits add up to a multiple of 9

[1 mark]

□ 522

□ 896

□ 914

522

886

914

896

26

10% of 140 is 14. Use that to find 30% of 140.

[1 mark]

ANSWER

Practice Paper 3

FOR THE MARKER

The marks for every question, the answers to accept and what to award for part of an answer. 29 marks in total.

1	$\frac{1}{3}$	[1 mark]
2	$\frac{5}{6}$	[1 mark]
3	5	[1 mark]
4	a spoonful of medicine → millilitres; the distance between two towns → kilometres; the mass of an apple → grams <i>Award the mark only when every part is correct.</i>	[1 mark]
5	6	[1 mark]
6	each part cut into 2, making 8 parts <i>Award the mark when the drawing or marking matches the answer shown.</i>	[1 mark]
7	acute <i>Award the mark for the correct choice only. Two or more choices marked scores no mark.</i>	[1 mark]
8	25 metres	[1 mark]
9	2	[1 mark]
10	40	[1 mark]
11	< <i>Award the mark for the correct choice only. Two or more choices marked scores no mark.</i>	[1 mark]
12	5	[1 mark]
13	16	[1 mark]
14	110 degrees	[1 mark]
15	36 square centimetres	[1 mark]
16	$\frac{2}{8}$ <i>Award the mark for the correct choice only. Two or more choices marked scores no mark.</i>	[1 mark]

17	8 cm	[1 mark]
18	Row 1, digit 1 6; Row 1, digit 2 5; Row 1, digit 3 3; Row 1, digit 4 6; Row 2, digit 1 4; Row 2, digit 2 3; Row 2, digit 3 5; Row 2, digit 4 9; Ones 6; Tens 9; Hundreds 6; Thousands 1; Ten thousands 0; Hundred thousands 1 <i>Award the mark when the drawing or marking matches the answer shown.</i>	[1 mark]
19	Answer digit 1 1; Answer digit 2 1; Answer digit 3 7; Answer digit 4 6 <i>Award the mark when the drawing or marking matches the answer shown.</i>	[1 mark]
20	8 <i>Award 2 marks for the correct answer. Award 1 mark for a correct method with no more than one arithmetic error.</i>	[2 marks]
21	12 <i>Award 2 marks for the correct answer. Award 1 mark for a correct method with no more than one arithmetic error.</i>	[2 marks]
22	9 <i>Award 2 marks for the correct answer. Award 1 mark for a correct method with no more than one arithmetic error.</i>	[2 marks]
23	3 <i>Award the mark for the correct choice only. Two or more choices marked scores no mark.</i>	[1 mark]
24	Divides by 9 → Its digits add up to a multiple of 9; Divides by 4 → Its last two digits make a multiple of 4; Divides by 10 → It ends in 0 <i>Award the mark only when every part is correct.</i>	[1 mark]
25	914 <i>Award the mark for the correct choice only. Two or more choices marked scores no mark.</i>	[1 mark]
26	42	[1 mark]

Total	29 marks
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