

Year 6 Maths Practice Paper 2

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** Which unit would you use for the length of a classroom? Circle your answer. [1 mark]
- ☐ kilograms ☐ metres ☐ millilitres

- 2** Which is larger, $\frac{3}{4}$ or $\frac{3}{10}$? Circle your answer. [1 mark]
- ☐ $\frac{3}{10}$ ☐ $\frac{3}{4}$

- 3** Shade the bottom bar, which is in thirds, so it shows the same as $\frac{6}{9}$. [1 mark]



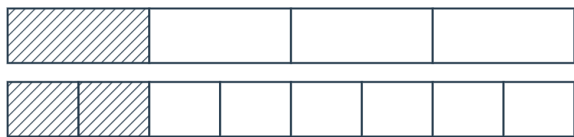
- 4** Put the cards in order, smallest first. Write the numbers in order. [1 mark]



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

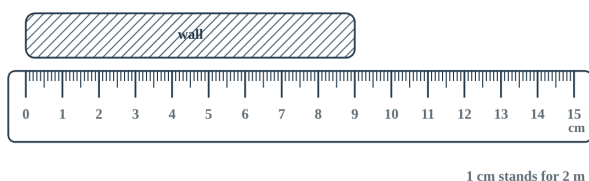


- 6 The top bar shows $\frac{1}{4}$. Each part of the bottom bar is a eighth. How many eighths is $\frac{1}{4}$? [1 mark]



ANSWER

- 7 How long is the drawing of the wall, in centimetres on the page? [1 mark]



ANSWER

- 8 Work out $2x + 8$ when $x = 6$, one step at a time. [1 mark]

$x = 6$

$2x + 8$

ANSWER

- 9 What is the largest factor that 14 and 16 both have? [1 mark]

ANSWER

- 10 A rectangle is 4 centimetres by 6 centimetres. Which is the larger number, its area in square centimetres or its perimeter in centimetres? Circle your answer. [1 mark]

☐ The area

☐ They are equal

☐ The perimeter

11 Find 30% of 200. [1 mark]

[1 mark]

ANSWER

12 Round 4.954 to 1 decimal place. [1 mark]

[1 mark]

ANSWER

13 Make jumps of 9 from 0 until you land on a number that is also a multiple of 5. Draw jumps of 9 until you reach a multiple of 5. [1 mark]

[1 mark]



14 Match each shape to its area in square centimetres. Draw a line from each item on the left to its match on the right. [1 mark]

[1 mark]

15 Build a square of counters with 4 in each row. Draw the array. [1 mark]

[1 mark]

A 10x10 grid of dashed circles, intended for a dot-marker activity where students place a dot in each circle.

16 Work out 3719×31 with the written method, one row at a time.

[1 mark]

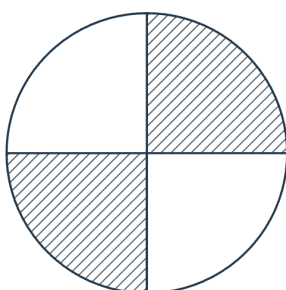
$$\begin{array}{r} 3719 \\ \times \quad 31 \\ \hline \end{array}$$

ANSWER

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17 The angles are Red 175°, Blue 120°, Green 40°, Yellow 25°. Set each sector to its angle, going round from the top. Draw the pie chart with a protractor.

[1 mark]



- ☒ Red
☐ Blue
☒ Green
☐ Yellow

18 Work out $8320 \div 5$ with the bus stop, a digit at a time.

[1 mark]

$$\begin{array}{r} \\ 5 \overline{) 8320} \end{array}$$

[illegible]

ANSWER

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19 Is 42 a prime number? Circle your answer.

[1 mark]

☐ No☐ Yes

- 20** In a bag, 3 out of every 5 sweets are red and the rest are yellow. What is the ratio of red to yellow? Circle your answer. [1 mark]
- ☐ 3 : 2 ☐ 3 : 5 ☐ 2 : 3

- 21** 616 cakes are packed into boxes of 4. How many full boxes are there, with none left over? [2 marks]

ANSWER

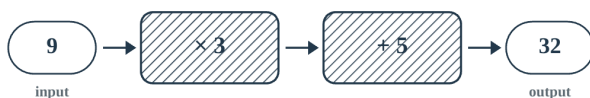
- 22** Isla scores 9 points and Omar scores 109. Who scores more, and by how many? Give the difference. [2 marks]

ANSWER

- 23** A jug holds $4\frac{1}{4}$ litres. Cara pours out $2\frac{2}{4}$ litres. How much is left? Write your answer as a mixed number. [2 marks]

ANSWER

- 24** The two machines use the same boxes in a different order. With 9 going in, what is the difference between their outputs? [1 mark]



ANSWER

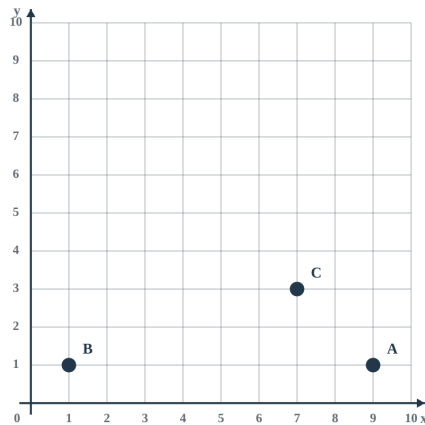
- 25 Two of the points lie on the same horizontal line. Which point does not? Circle your answer.

[1 mark]

☐ A

☐ C

☐ B



- 26 One machine does $\times 4$ then $+ 6$. Another does $+ 6$ then $\times 4$. Do they give the same output for 3? Circle your answer.

[1 mark]

☐ No, the order changes the answer

☐ Yes, the order does not matter

☐ Only if the input is 0

Practice Paper 2

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	metres	[1 mark]	2	$\frac{3}{4}$	[1 mark]
	Award the mark for the correct choice only. Two or more choices marked scores no mark.			Award the mark for the correct choice only. Two or more choices marked scores no mark.	
3	2 of the 3 parts shaded	[1 mark]	4	$\frac{3}{12}, \frac{4}{12}, \frac{7}{12}$	[1 mark]
	Award the mark when the drawing or marking matches the answer shown.			Award the mark when the drawing or marking matches the answer shown.	
5	each part cut into 3, making 6 parts	[1 mark]	6	2	[1 mark]
	Award the mark when the drawing or marking matches the answer shown.				
7	9 centimetres	[1 mark]	8	20	[1 mark]
9	2	[1 mark]	10	The area	[1 mark]
				Award the mark for the correct choice only. Two or more choices marked scores no mark.	
11	60	[1 mark]	12	5	[1 mark]
13	+9, +9, +9, +9, +9	[1 mark]	14	clock 1 → 32; clock 2 → 24; clock 3 → 70	[1 mark]
	Award the mark when the drawing or marking matches the answer shown.			Award the mark only when every part is correct.	
15	4 rows of 4	[1 mark]	16	115289	[1 mark]
	Award the mark when the drawing or marking matches the answer shown.				
17	175°, 120°, 40°, 25°	[1 mark]	18	1664	[1 mark]
	Award the mark when the drawing or marking matches the answer shown.				
19	No	[1 mark]	20	3 : 2	[1 mark]
	Award the mark for the correct choice only. Two or more choices marked scores no mark.			Award the mark for the correct choice only. Two or more choices marked scores no mark.	

21	154	[2 marks]	22	100	[2 marks]
	Award 2 marks for the correct answer. Award 1 mark for a correct method with no more than one arithmetic error.			Award 2 marks for the correct answer. Award 1 mark for a correct method with no more than one arithmetic error.	
23	$1\frac{3}{4}$	[2 marks]	24	10	[1 mark]
	Award 2 marks for the correct answer. Award 1 mark for a correct method with no more than one arithmetic error.				
25	C	[1 mark]	26	No, the order changes the answer	[1 mark]
	Award the mark for the correct choice only. Two or more choices marked scores no mark.			Award the mark for the correct choice only. Two or more choices marked scores no mark.	

Total

29 marks