

Year 6 Maths Practice Paper 1

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
40 minutes
TOTAL MARKS
32
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

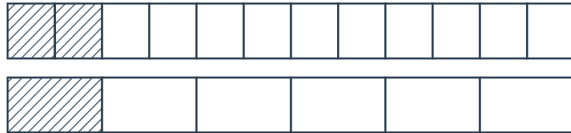
Score _____ **out of 32**

Percentage _____ %

01 Questions

Answer every question. Show your working.

- 1 The top bar shows $\frac{2}{12}$. The bottom bar shows the same amount in bigger parts. What fraction is that? Write your answer as a fraction. [1 mark]



ANSWER

- 2 The counters are grouped in 5s. How many counters are there in five groups? [1 mark]



ANSWER

- 3 A tape measure is shown. Which of these would you measure with it? Circle your answer. [1 mark]

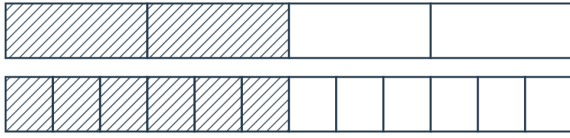
- ☐ the distance between two towns ☐ the width of a fingernail
☐ the length of a football pitch



- 4 Both bars are the same length. Which bar has more shaded? Circle your answer. [1 mark]
- ☐ The top bar ☐ They show the same ☐ The bottom bar

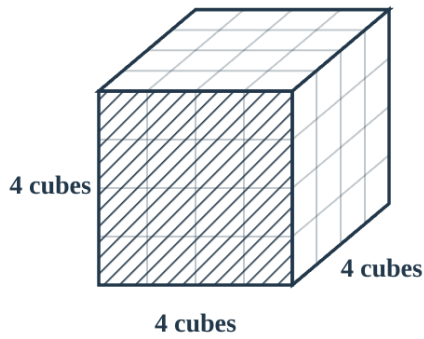


- 5 The top bar shows $\frac{2}{4}$. Each part of the bottom bar is a twelfth. How many twelfths is $\frac{2}{4}$? [1 mark]



ANSWER

- 6 How many small cubes make up this larger cube? [1 mark]



ANSWER

- 7 The written method for 4737×13 starts with 4737×3 . What is that first row? [1 mark]

$$\begin{array}{r}
 4737 \\
 \times 13 \\
 \hline
 00000 \\
 00000 \\
 \hline
 000000
 \end{array}$$

ANSWER

- 13

8 divides 64 exactly. Build 40 counters into rows of 8 to show that it divides 40 exactly too. Draw the array.

[1 mark]



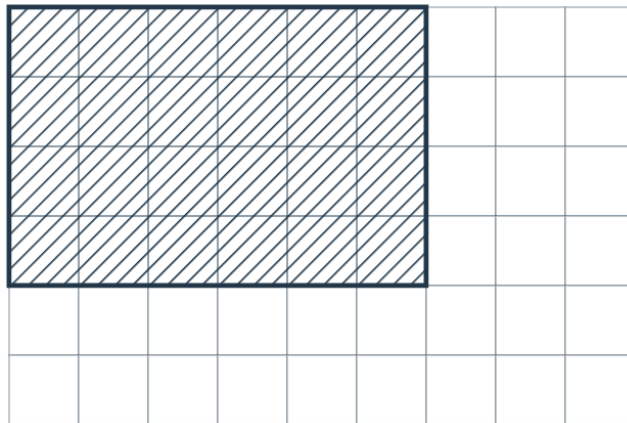
- 14

Sort these jobs by whether they need the distance round or the space covered. Write each item under the right heading.

[2 marks]
- the edging round a pond the paint for a wall the fence round a field the ribbon round a box

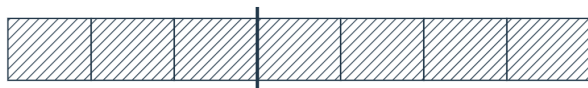
Distance round

Space covered



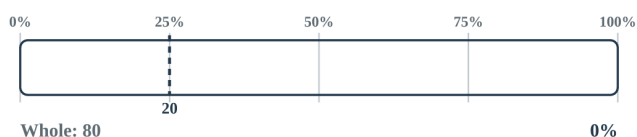
- 15 The bar is cut in the ratio 3 : 4. What fraction of the whole bar is the blue share? Write your answer as a fraction. [1 mark]

3 : 4

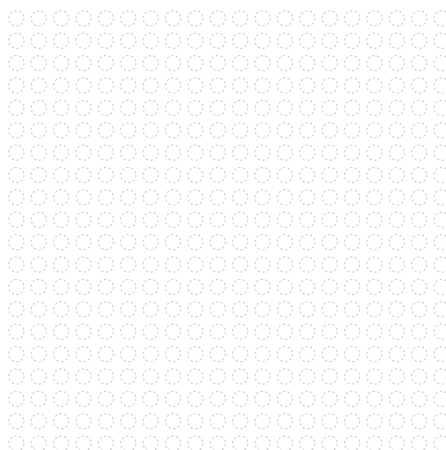


ANSWER

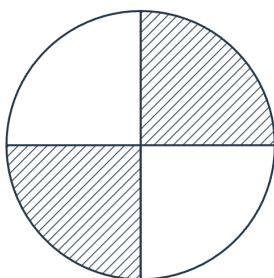
- 16 Slide the fill of the bar, which stands for 80, until it reaches the mark at 20. What percentage of 80 is that? Write the value the slider should show. [1 mark]



- 17 Build 5 counters as equal rows. Because 5 is prime, there is only one way to do it. Draw the array. [1 mark]



- 18 Draw the pie chart for Red 7, Blue 12, Green 3, Yellow 14, out of 36, one step at a time. [1 mark]



- ☒ Red
- ☐ Blue
- ☒ Green
- ☐ Yellow

ANSWER

- 19** A hire bike costs £5 an hour plus a £2 booking fee. Write the cost in pounds as a machine on the number of hours: what does 7 hours cost? [2 marks]

ANSWER

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- 20** Rosa reads $\frac{1}{2}$ of a book and Leah reads $\frac{7}{8}$ of the same book. Who has read more? [1 mark]
Circle your answer.

- ☐ They have read the same amount
- ☐ Leah
- ☐ Rosa

- 21 792 divides exactly by 6. Which two smaller numbers must it therefore divide by as well? Write both answers. [1 mark]

ANSWER

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- 22** A rectangular garden on a plan has opposite corners at (1, 5) and (5, 9). How many units wide is it? [2 marks]

ANSWER

Page 10 of 10

- 23** Nia spends $\frac{1}{2}$ of an hour on maths and $\frac{3}{5}$ of an hour on reading. What fraction of an hour is that altogether? Give your answer in its simplest form. Write your answer as a mixed number. [2 marks]

ANSWER

- 24** Ellie runs $1\frac{3}{6}$ km on Monday and $1\frac{3}{6}$ km on Tuesday. How far does Ellie run in total? [2 marks]

ANSWER

- 25** 1 cm stands for 5 m. How many centimetres long should a 25 m garden be on the drawing? [2 marks]

ANSWER

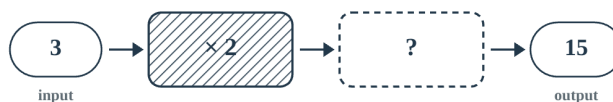
- 26** The first step is $\times 2$. What is the second step? Circle your answer. [1 mark]

☐ + 9

☐ - 9

☐ $\times 9$

☐ + 11



Practice Paper 1

FOR THE MARKER

The marks for every question, the answers to accept and what to award for part of an answer. 32 marks in total.

1	$\frac{1}{6}$	[1 mark]
2	25	[1 mark]
3	the length of a football pitch <i>Award the mark for the correct choice only. Two or more choices marked scores no mark.</i>	[1 mark]
4	The top bar <i>Award the mark for the correct choice only. Two or more choices marked scores no mark.</i>	[1 mark]
5	6	[1 mark]
6	64	[1 mark]
7	14211	[1 mark]
8	1	[1 mark]
9	6	[1 mark]
10	21 square centimetres	[1 mark]
11	> <i>Award the mark for the correct choice only. Two or more choices marked scores no mark.</i>	[1 mark]
12	acute <i>Award the mark for the correct choice only. Two or more choices marked scores no mark.</i>	[1 mark]
13	5 rows of 8 <i>Award the mark when the drawing or marking matches the answer shown.</i>	[1 mark]
14	the edging round a pond: Distance round; the paint for a wall: Space covered; the fence round a field: Distance round; the ribbon round a box: Distance round <i>Award 2 marks when every part is correct. Award 1 mark when there is exactly one error.</i>	[2 marks]
15	$\frac{3}{7}$	[1 mark]

16	25%	[1 mark]
<i>Award the mark when the drawing or marking matches the answer shown.</i>		
17	1 rows of 5	[1 mark]
<i>Award the mark when the drawing or marking matches the answer shown.</i>		
18	70 degrees	[1 mark]
19	37	[2 marks]
<i>Award 2 marks for the correct answer. Award 1 mark for a correct method with no more than one arithmetic error.</i>		
20	Leah	[1 mark]
<i>Award the mark for the correct choice only. Two or more choices marked scores no mark.</i>		
21	2 and 3	[1 mark]
22	4	[2 marks]
<i>Award 2 marks for the correct answer. Award 1 mark for a correct method with no more than one arithmetic error.</i>		
23	$1\frac{1}{10}$	[2 marks]
<i>Award 2 marks for the correct answer. Award 1 mark for a correct method with no more than one arithmetic error.</i>		
24	3	[2 marks]
<i>Award 2 marks for the correct answer. Award 1 mark for a correct method with no more than one arithmetic error.</i>		
25	5 centimetres	[2 marks]
<i>Award 2 marks for the correct answer. Award 1 mark for a correct method with no more than one arithmetic error.</i>		
26	+ 9	[1 mark]
<i>Award the mark for the correct choice only. Two or more choices marked scores no mark.</i>		

Total

32 marks