

Year 7 Maths

Practice Paper 3

This paper covers: Place value, ordering and rounding, Four operations, Fractions, decimals and percentages, Fractions and percentages of amounts, Properties of numbers, Add and subtract fractions, Sequences, Algebraic notation, Expressions and equations, Graphing data, Perimeter and area, Angles and polygons.

TIME ALLOWED
40 minutes
TOTAL MARKS
34
QUESTIONS
24

Name _____

Class _____ Date _____

INSTRUCTIONS

- Use black ink or a black ball-point pen.
- Answer every question in the space given.
- You may 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.
- Diagrams are not drawn accurately unless the question says so.
- Check your answers if you have time at the end.

FOR THE MARKER

Score _____ **out of 34**

Percentage _____ %

01 Questions

Answer every question. Show your working.

- 1** Simplify $\frac{3}{12}$ to its lowest terms. Write your answer as a fraction.

[1 mark]

ANSWER

- 2** Write 56 hundredths as a decimal.

[1 mark]

ANSWER

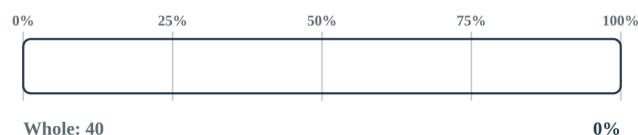
- 3** Find 34% of 750.

[1 mark]

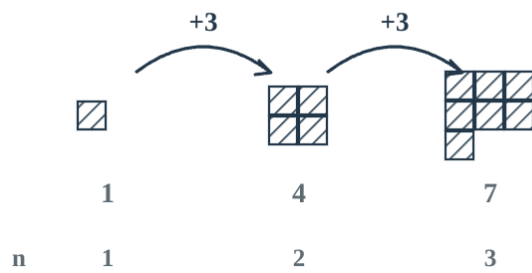
ANSWER

- 4** The bar stands for 40. Slide the fill to show 10% of it. Write the value the slider should show.

[1 mark]

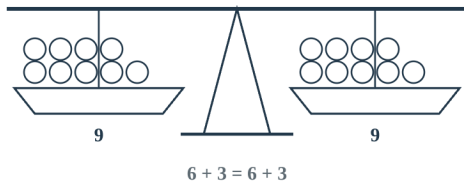


- 5 The tile patterns grow. The number added is written between them. How many tiles are added each time? [1 mark]



ANSWER

- 6 The scales balance. How many unit weights are on the right pan? [1 mark]



ANSWER

- 7 This bar is shaded to show a fraction. What is the top number of that fraction? [1 mark]



ANSWER

- 8 59.93 take away a decimal leaves 42.87. What was taken away? [1 mark]

ANSWER

- 9 A square has sides of 13 centimetres. What is its perimeter in centimetres? [1 mark]

ANSWER

- 10 Find $\frac{1}{2} - \frac{1}{6}$. Give your answer in its simplest form. Write your answer as a fraction. [1 mark]

ANSWER

- 11 360 books were counted in all, but the Class 4 row is missing. How many belong in it? [2 marks]

Class 1



Class 2



Class 3



Class 4

Key: each circle stands for 20 books

ANSWER

- 12 Complete the written method for 347×14 . Write the digits in the boxes. [1 mark]

$$\begin{array}{r}
 347 \\
 \times 14 \\
 \hline
 \begin{array}{r}
 \boxed{}\boxed{}\boxed{}\boxed{} \\
 \boxed{}\boxed{}\boxed{} \\
 \hline
 \boxed{}\boxed{}\boxed{}\boxed{}
 \end{array}
 \end{array}$$

- 19** A hire bike costs £5 an hour plus a £1 booking fee. Write the cost in pounds as a machine on the number of hours: what does 6 hours cost? [2 marks]

ANSWER

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- 20 Multiply 182 by 10, then divide the answer by 100. What do you get? [2 marks]

ANSWER

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- 21 Which is larger: $\frac{3}{12} + \frac{1}{12}$ or $\frac{3}{12} - \frac{2}{12}$? Circle your answer. [1 mark]

$$\square \frac{3}{12} + \frac{1}{12}$$
$$\square \frac{3}{12} - \frac{2}{12}$$
☐ They are equal

- 22** Ben scores 158 points and Grace scores 312. Who scores more, and by how many? Give the difference. [3 marks]

ANSWER

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- 23** Which number is $2 \times 2 \times 2 \times 2 \times 3$? [2 marks]

ANSWER

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24

3 pentagons are drawn side by side. How many sides are drawn in total?

[3 marks]

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. 34 marks in total.

1	$\frac{1}{4}$	[1 mark]
2	0.56	[1 mark]
3	255	[1 mark]
4	10% <i>Award the mark when the drawing or marking matches the answer shown.</i>	[1 mark]
5	3	[1 mark]
6	9	[1 mark]
7	3	[1 mark]
8	17.06	[1 mark]
9	52 cm	[1 mark]
10	$\frac{1}{3}$	[1 mark]
11	60 <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]
12	Row 1, digit 1 8; Row 1, digit 2 8; Row 1, digit 3 3; Row 1, digit 4 1; Row 2, digit 1 7; Row 2, digit 2 4; Row 2, digit 3 3; Ones 8; Tens 5; Hundreds 8; Thousands 4 <i>Award the mark when the drawing or marking matches the answer shown.</i>	[1 mark]
13	clock 1 → 20; clock 2 → 15; clock 3 → 78 <i>Award the mark only when every part is correct.</i>	[1 mark]
14	Answer digit 1 1; Answer digit 2 7; Answer digit 3 6; Answer digit 4 3 <i>Award the mark when the drawing or marking matches the answer shown.</i>	[1 mark]
15	$42 - 4 = 38$ <i>Award the mark for the correct choice only. Two or more choices marked scores no mark.</i>	[1 mark]

16	$\times 5$	[1 mark]
Award the mark for the correct choice only. Two or more choices marked scores no mark.		
17	The whole part must be multiplied by 8 first: $\frac{31}{8}$	[1 mark]
Award the mark for the correct choice only. Two or more choices marked scores no mark.		
18	0.9 metres	[3 marks]
Award 3 marks for the correct answer. Award 2 marks for a complete method with no more than one arithmetic error. Award 1 mark for a correct first step.		
19	31	[2 marks]
Award 2 marks for the correct answer. Award 1 mark for a correct method with no more than one arithmetic error.		
20	18.2	[2 marks]
Award 2 marks for the correct answer. Award 1 mark for a correct method with no more than one arithmetic error.		
21	$\frac{3}{12} + \frac{1}{12}$	[1 mark]
Award the mark for the correct choice only. Two or more choices marked scores no mark.		
22	154	[3 marks]
Award 3 marks for the correct answer. Award 2 marks for a complete method with no more than one arithmetic error. Award 1 mark for a correct first step.		
23	48	[2 marks]
Award 2 marks for the correct answer. Award 1 mark for a correct method with no more than one arithmetic error.		
24	15	[3 marks]
Award 3 marks for the correct answer. Award 2 marks for a complete method with no more than one arithmetic error. Award 1 mark for a correct first step.		

Total	34 marks
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