

ENTRY LEVEL CERTIFICATE MATHEMATICS

5930/3

Externally set assignment Component 3 – Ratio

Specimen 2015

Time allowed: 45 minutes

Materials

For this paper you must have:

- a pen
- a pencil
- a ruler

You may use a calculator.

20 counters should be made available for each candidate.

Instructions

- Use black ink or black ball-point pen. Draw diagrams in pencil.
- Fill in the boxes at the bottom of this page.
- Answer all questions.
- You must answer the questions in the space provided. Do not write outside the box around each page or on blank pages.
- Do all rough work in this book. Cross through any work that you do not want to be marked.

Information

- The marks for questions are shown in brackets.
- The maximum mark for this paper is 30
- You are expected to use a calculator where appropriate.

Advice

In all calculations, show clearly how you worked out your answer.

Please write clearly, in block capitals.
Centre number Candidate number
Surname
Forename(s)
Candidate signature

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Answer all questions in the spaces provided.

- 1 Fill in the missing numbers.
- 1 (a) 4+5=3+

[1 mark]

[1 mark]

1 (c)
$$9-3=18-$$

[1 mark]

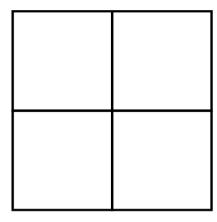
2 Shade in one half.

2 (a)



[1 mark]

2 (b)



3	Look at the cards.	
	Tick ✓ the correct statement.	[1 mark]
	Half of the cards are blank	[Tillark]
	Half of the cards have stripes	
4	Work out half of	
4 (a)	8	
		[1 mark]
4 (b)	14	
		[1 mark]
5	Ellie has 16 beads.	
	She gives half of them to Jonny.	
	How many beads does she give him?	[1 mark]

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	4	
6	Shade half of the counters.	[1 mark]
7	Shade one third of the tiles.	[1 mark]
8	What fraction of the square is shaded?	[1 mark]
9	Work out the next number in the pattern.	 [1 mark]

 $1\frac{1}{2}$ 2 $2\frac{1}{2}$ 3 _____

[1 mark]

	5	<u> </u>
10	Work out	
10 (a)	$\frac{1}{4}$ of 20	
	4	[1 mark]
10 (b)	one third of 18	
		[1 mark]
11	Alice has 15 apps.	
11 (a)	Jed has twice as many as Alice.	
	How many does he have?	[1 mark]
11 (b)	Harris has four times as many as Alice .	
	How many does he have?	

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12 Circle the **two** fractions that have the same value.

[1 mark]

 $\frac{1}{2}$

 $\frac{2}{3}$

 $\frac{2}{4}$

 $\frac{3}{5}$

13 Davi raised £10 for charity.

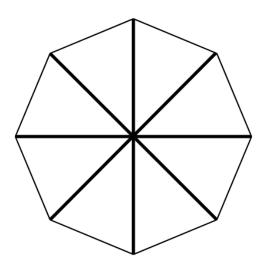
Eric raised three times as much.

How much did Eric raise?

[1 mark]

£

14 Shade one quarter of the shape.



15 (a)	What fraction	of the	chana	ic	shadad?
10 (a)	vvnat naction	or the	Snape	15	snaueu:



[1 mark]

15 (b) What fraction of the shape is shaded?



[1 mark]

16 Work out

16 (a)
$$\frac{1}{7}$$
 of 35

[1 mark]

16 (b) $\frac{2}{3}$ of 24

Work out three fifths of 30

[1 mark]

18 Work out

18 (a)
$$\frac{2}{5} + \frac{1}{5} = --$$

[1 mark]

18 (b)
$$\frac{6}{7} - \frac{4}{7} = --$$

19	Katie has 50 texts left for the next 7 days. Does she have enough to send 8 texts a day?			
	Show how you decide.			
		[2 marks]		

20 Fill in the missing number to make the fractions equivalent.

[1 mark]

$$\frac{1}{4} = \frac{1}{12}$$

END OF QUESTIONS

