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# 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	
Surname	
Forename(s)	
Candidate signature	/



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

3



40		
10		
10 (a)	$\frac{1}{4}$ of 20	
	4	[1 mark]
10 (b)	one third of <b>18</b>	[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 <b>Alice</b> .	
	How many does he have?	[1 mark]

5







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	
	Show now you decide.	[2 marks]
20	Fill in the missing number to make the fractions equivalent.	[1 mark]
	1	
	$\frac{1}{4} = \frac{1}{12}$	
	END OF QUESTIONS	

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