SPECIMEN MATERIAL

## ENTRY LEVEL CERTIFICATE MATHEMATICS <br> 5930/3 <br> Externally set assignment <br> 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 $\square \square \square \square \square$
Candidate number $\square$
Surname
Forename(s) $\square$

Candidate signature

Answer all questions in the spaces provided.

1 Fill in the missing numbers.
1(a) $4+5=3+$ $\square$

1(b) $14+4=11+$ $\square$

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

2 Shade in one half.
2 (a)


2 (b)


3 Look at the cards.


Tick $\checkmark$ the correct statement.
[1 mark]
Half of the cards are blank $\square$

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?

6 Shade half of the counters.
[1 mark]
000000000000

7 Shade one third of the tiles.

[1 mark]

8 What fraction of the square is shaded?


9 Work out the next number in the pattern.

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

10 Work out
10(a) $\frac{1}{4}$ of 20

10 (b) one third of 18

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?

12 Circle the two fractions that have the same value.
$\frac{1}{2}$
$\frac{2}{3}$
$\frac{2}{4}$
$\frac{3}{5}$

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 shape is shaded?


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


16 Work out
16(a) $\frac{1}{7}$ of 35
[1 mark]

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

17 Work out three fifths of 30

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.

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


END OF QUESTIONS

There are no questions printed on this page

DO NOT WRITE ON THIS PAGE ANSWER IN THE/SPACES PROVIDED

