

STAGE 7 MATHEMATICS

TOPIC QUESTIONS

TOPIC: DECIMALS / FRACTIONS PERCENTAGES AND RATIO

SET-1

- 1 Here are some number cards.

6	10	5	11	7
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Use two of the cards to make a fraction which is less than $\frac{1}{2}$

[1]

Mark Scheme:

	$\frac{5}{11}$	1	
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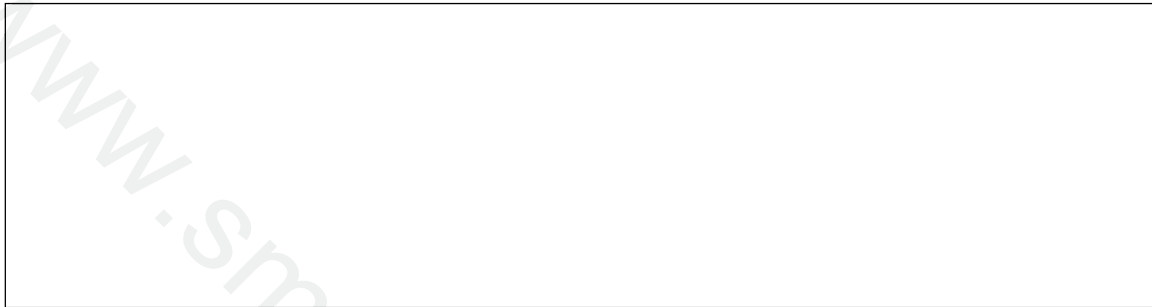
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- 2 Put a ring around the calculation with the largest answer.

$$\frac{2}{5} \text{ of } 410$$

$$38\% \text{ of } 420$$

Show how you know.



[2]

Mark Scheme:

Part	Mark	Answer	Further Information
	2	$\frac{2}{5}$ of 410 38% of 420 and $(\frac{2}{5} \text{ of } 410 =) 164$ and $(38\% \text{ of } 420 =) 159.60$	Award 1 mark for 159.60 or 164 seen
Total	2		

3 Here is a multiplication with a mixed number missing.

$$\frac{5}{8} \times \boxed{} = \frac{3}{4}$$

Work out the missing mixed number.

[1]

Mark Scheme:

$1\frac{1}{5}$	1	Accept equivalent mixed numbers, e.g. $1\frac{2}{10}$ Do not accept $\frac{6}{5}$ or 1.2
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4 Here is a calculation.

$$109 \div 15 = 7 \text{ remainder } 4$$

Put a ring around the correct fraction for the answer to this calculation.

$$\frac{7}{4}$$

$$7 \frac{4}{109}$$

$$15 \frac{4}{7}$$

$$7 \frac{4}{15}$$

$$7 \frac{4}{7}$$

[1]

Mark Scheme:

Part	Mark	Answer	Further Information
	1	$\frac{7}{4}$ $7\frac{4}{109}$ $15\frac{4}{7}$ $\left(7\frac{4}{15}\right)$ $7\frac{4}{7}$	
Total	1		

5 (a) Here is a calculation.

$$87 \div 14 = 6 \text{ remainder } 3$$

Draw a ring around the correct fraction for the answer to this calculation.

$$\frac{6}{3}$$

$$6\frac{3}{87}$$

$$14\frac{3}{6}$$

$$6\frac{3}{14}$$

$$3\frac{6}{14}$$

[1]

(b) Use two whole numbers to complete this calculation.

$$\boxed{} \div \boxed{} = 9\frac{2}{13}$$

[1]

Mark Scheme:

(a)	$\frac{6}{3}$ $6\frac{3}{87}$ $14\frac{3}{6}$ $\textcircled{6\frac{3}{14}}$ $3\frac{6}{14}$	1	Accept any clear indication.
(b)	119 and 13	1	In this order. Accept any multiple of 119 and 13, (must be the same multiple of each e.g. 238 and 26)