STAGE 9 MATHEMATICS

TOPIC QUESTIONS

TOPIC: FRACTIONS, DECIMALS, PERCENTAGES

SET-2

1.

Without using a calculator, work out $\frac{1}{3}+\frac{5}{6}$.

You must show all your working and give your answer as a mixed number in its simplest form.

..... [2]

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MARK SCHEME 1:

	$\frac{2}{6}+\frac{5}{6}$ oe	**M1**	i.e. correct fractions with common denominator $6k$
	$1\frac{1}{6}$ cao	**A1**	

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2

(a) Put a ring around the fraction that is equivalent to $\frac{7}{12}$.

$\frac{35}{62}$ $\frac{20}{36}$ $\frac{49}{84}$ $\frac{82}{144}$ $\frac{64}{110}$

[1]

(b) Write these numbers in order, starting with the smallest.

$\frac{7}{12}$ 0.6 58% $\frac{8}{13}$ $\frac{2}{3}$

..... < ..... < ..... < ..... < ..... [2]

smallest

(c) Write 0.724 as a fraction in its simplest form.

..... [1]

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MARK SCHEME 2:

(a)	$\frac{49}{84}$	**1**	
(b)	58% $\frac{7}{12}$ 0.6 $\frac{8}{13}$ $\frac{2}{3}$	**2**	**B1** for 4 in correct order or **M1** for 0.583[...], [0.6], 0.58, 0.615[…] or 0.61 or 0.62, 0.66[...] or 0.67 or 0.667 or 0.7 oe
(c)	$\frac{181}{250}$ cao	**1**	

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3.

Without using a calculator, work out $2\frac{5}{8} \times \frac{3}{7}$.
Show all your working and give your answer as a mixed number in its lowest terms.

..... [3]

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MARK SCHEME:3

	$\frac{21}{8} \times \frac{3}{7}$ oe	**M1**	Must be shown
	$1\frac{1}{8}$ cao final answer	**A2**	**A1** for $\frac{9}{8}$ oe e.g. $\frac{63}{56}$

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4.

Work out $\frac{2}{3} - \frac{1}{4}$, giving your answer as a fraction in its lowest terms.

Do not use a calculator and show all the steps of your working.

.....[2]

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MARK SCHEME 4:

	$\frac{8}{12}$ and $\frac{3}{12}$ oe $\frac{5}{12}$ cao	**M1** **A1**	Correct fractions with common denominator

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5.

Write as a single fraction. $1-\frac{2}{p}-\frac{3}{t}$

..... [2]

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MARK SCHEME: 5

	$\frac{pt-2t-3p}{pt}$ final answer	**2**	**B1** for $pt-2t-3p$ or $1-\frac{2t+3p}{pt}$

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