SMART EXAM RESOURCES artexamresources.com **STAGE 7 MATHEMATICS**

TOPIC QUESTIONS

TOPIC: FRACTIONS, DECIMALS, PERCENTAGES SET-3

1	
1	

(a) Write $\frac{11}{3}$ as a mixed number.

using a the steps of 3 (b) Without using a calculator, work out $\frac{1}{4} + \frac{5}{12}$. Show all the steps of your working and give your answer as a fraction in its lowest terms.

MARK SCHEME 1;

.)	i		
	$3\frac{2}{3}$ cao	1	
)	$\frac{3}{12} \left[\text{and } \frac{5}{12} \right] \text{ oe}$	M1	For correct method to find common denominator e.g. $\frac{12}{48}$ and $\frac{20}{48}$
4	$\frac{2}{3}$ cao	A1	

2.

Fraction		Decimal		Percentage
$\frac{1}{2}$	=	0.5	=	50
	=	0.25	=	
$\frac{1}{5}$	=		=	20

are to mesources com Complete the table. [3]

$\frac{1}{4}$ oe fraction 25	3	B1 for each in correct place
0.2		

- 3 Write
 - (a) $\frac{1}{2}$ as a percentage,

..... % [1]

(b) 0.7 as a fraction,

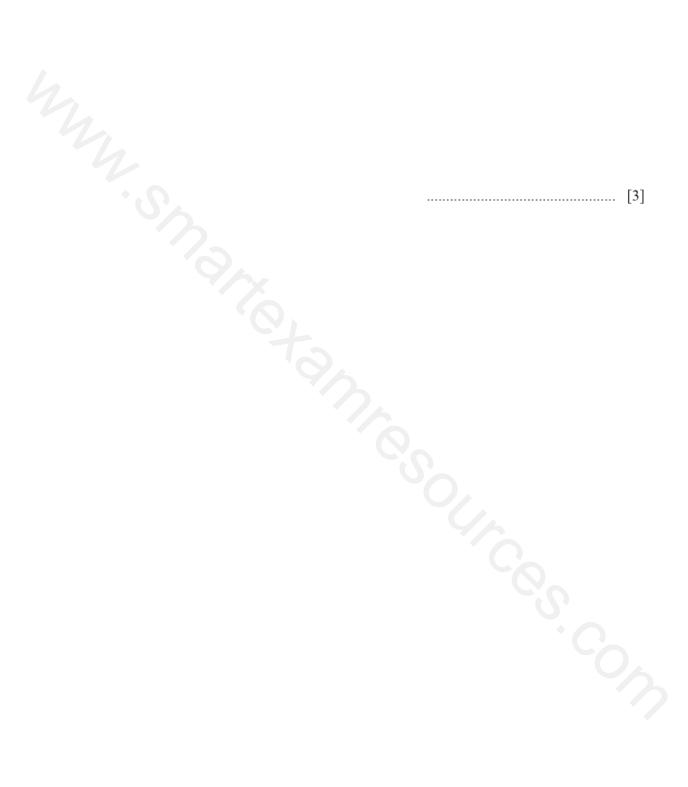
......[1]

- (c) $\frac{11}{20}$ as a decimal.
- (c) $\frac{1}{20}$.

a)	50	1	
b)	$\frac{7}{10}$ or equivalent fraction	1	
c)	0.55 cao	1	
	Ann short on		

Without using a calculator, work out $\frac{15}{28} \div \frac{4}{7}$.

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



$\frac{15}{28} \times \frac{7}{4} \text{ or } \frac{15}{28} \div \frac{16}{28} \text{ oe}$	M1	
$\frac{15}{16}$ cao	A2	A1 for $\frac{105}{112}$ oe
		112

5. Write these numbers in order, starting with the smallest.

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 $\frac{13}{201}$

5.6%

0.065

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5

|--|

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

 $\frac{5}{2}$ $\frac{2}{3}$

 $\frac{82}{144}$

64 110

[1]

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

 $\frac{7}{12}$

0.6

58%

 $\frac{8}{13}$

 $\frac{2}{3}$

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

______[1]

(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
(c)	$\frac{181}{250}$ cao	1	

7	(a)	Write down a fraction which is equivalent to $\frac{3}{5}$.	www.smartexamresources.com
			[1]
	(b)	Write down the reciprocal of 7.	
			[1]

(a)	$\frac{3k}{5k}$ where k is an integer $\neq 1$	1	
(b)	$\frac{1}{7}$ oe	1	