

Basic Fractions and Percentages Mark Scheme

1.	(a)	$\frac{11}{100}$	1	
		<i>BI for $\frac{11}{100}$</i>		
	(b)	25	1	
		<i>BI for 25</i>		
	(c)	0.08	1	
		<i>BI for 0.08</i>		
	(d)	80		
		$\frac{40}{100} \times 200$	2	
		<i>MI for $\frac{40}{100} \times 200$</i>		
		<i>AI for 80</i>		
				[5]
2.	(a)	$\frac{7}{100}$	1	
		<i>BI cao accept 0.07</i>		
	(b)	0.18	1	
		<i>BI cao</i>		
	(c)	40	2	
		20 in 100 oe		
		<i>MI for sight of 20 in 100 or 20×2</i>		
		<i>AI cao</i>		
				[4]
3.	(a)	$\frac{1}{4}$ oe	1	
		<i>BI cao</i>		
	(b)	0.75	1	
		<i>BI cao</i>		
	(c)	75%	1	
		<i>BI cao</i>		
	(d)	(i) 9	2	
		<i>BI accept answer in range 9 - 9.2</i>		
		(ii) 15 - 16		
		<i>BI accept answers in range 15 - 16</i>		
				[5]

4. (a) 656 2
800 – 144
M1 for at least 1 digit correct and in correct position needs to be 3 digit number
A1 for 656
- (b) 144 is less than 200 so Trudy is wrong 2
B1 for 200
B1ft for 'correct' explanation based on cand's "200"
- (c) 360 2

$$\frac{45 \times 800}{100}$$
M1 for $45 \times 800 \div 100$ oe
A1 for 360
- (d) 22 2

$$\frac{176}{800} \times 100$$
M1 for $\frac{176}{800} \times 100$ oe
A1 for 22
5. (a) $\frac{1}{6}, \frac{3}{8}, \frac{1}{2}, \frac{2}{3}, \frac{3}{4}$ 2 [8]
B2 for all correct
(B1 for 1 error or all correct but wrong order, or use of a common denominator decimals).
- (b) $\frac{3}{5}, 65\%, \frac{2}{3}, 0.72, \frac{3}{4}$ 2
B2 for all correct
(B1 for 1 error or all correct but wrong order or conversions to decimals oe)
6. (a) $\frac{2}{5}$ 2 [4]

$$\frac{40}{100}$$
B2 for $\frac{2}{5}$
B1 for $\frac{40}{100}$ or $\frac{4}{10}$ or $\frac{20}{50}$ or $\frac{8}{20}$
- (b) 0.98 1
B1 cao
- (c) 7 500 000 1
B1 cao
- (d) 25 1
B1 cao
- (e) 60 1
B1 cao

[6]