

Question			Answer	Marks	Part Marks and Guidance	
1			0.458	2	<b>M1</b> for attempt to subtract soi by 0.4(...)	
2			0.16 oe	3	<b>M2</b> for $(1 - 0.15 - 0.37) \div 3$ oe soi Or <b>M1</b> for $1 - 0.15 - 0.37$ soi by 0.48	<b>M2</b> implied by an answer figs 16

3	(a) BADC with correct working	3	<p><b>M1</b> for attempt to change any 2 fractions to a common denom, decimal or %  <b>A1</b> for any 2 correctly changed</p> $(A =) \frac{12}{48} \quad (B =) \frac{16}{48} \quad (C =) \frac{9}{48}$ $= 0.25 \quad = 0.33(\dots) \quad = 0.18(\dots)$ $(D =) \frac{10}{48}$ $= 0.20(\dots)$ <p>Or  If converting to unit fractions  <b>B1</b> for <math>C = \frac{1}{5.3(\dots)}</math> or <math>D = \frac{1}{4.8}</math></p> <p>Or  If a pictorial approach used:  <b>B1</b> for 4 reasonable pictures</p> <p>Or, if 0, <b>SC1</b> for BADC</p>	<p>Allow names or fractions for 3 marks</p> <p>Condone 1 incorrect conversion with up to 2 correct for up to 3 marks</p> <p>Allow 0.33..., 0.34..., 0.18..., 0.19..., 0.20..0.21.. and equivalent %</p> <p>Condone unconventional fractions  eg <math>\frac{4.5}{24}</math></p> <p>ie from wrong or no working</p>
	(b) They don't add up to 1  Any 1 fraction increased by $\frac{1}{48}$	1ft  1	<p>Total = <math>\frac{47}{48}</math>, 0.98, 98%</p> <p>ft sum of their 4 terms</p> <p>cao Or 0.02, 2%</p>	<p>Allow 'It only adds up to 47' oe ft  Allow 'whole' for '1' if not contradicted.  Allow 'not all money distributed' etc  Allow 'too much money distributed' if their sum &gt; 1 whether or not evaluated</p> <p>Condone unconventional fractions  eg <math>\frac{0.5}{24}</math></p>

4	(a)	(i)	62.5 or $62\frac{1}{2}$	2	<b>M1</b> for $6\frac{1}{4} \times 10$ oe After <b>0</b> allow <b>SC1</b> for answer 31.25 or $31\frac{1}{4}$ or answer 87.5 or $87\frac{1}{2}$	5 days one way or 7 days both ways
		(ii)	18 mins 45 secs	4	<b>B3</b> for 18.75 seen or for ans. 187 m 30 s Or <b>M2</b> for $(\text{their } 6\frac{1}{4}) \div 20 \times 60$ [ $\times 60$ ] oe Or <b>M1</b> for $(\text{their } 6\frac{1}{4}) \div 20$ After <b>0</b> allow <b>SC1</b> for 18 m $p$ s ( $p \neq 0$ ) or 19 m 15 s	<i>Their</i> $6\frac{1}{4}$ may be 62.5 or <i>their</i> (a)(i) or <i>their</i> (a)(i) $\div 10$
	(b)		39	3	<b>B2</b> for answer of 26 Or <b>M2</b> for $65 - \frac{2}{5} \times 65$ oe Or <b>M1</b> for $\frac{2}{5} \times 65$ oe	ie $\frac{3}{5} \times 65$
	(c)	(i)	0.12 oe	2	<b>M1</b> for $1 - (0.4 + 0.33 + 0.15)$ soi by answer of 0.48  Ignore incorrect conversion after correct answer	<u>In parts (c)(i) &amp; (ii)</u> -1 once for poor notation eg $\frac{0.12}{1}$ ; 1 : 0.12 etc
		(ii)	0.55 oe final answer	2	<b>M1</b> for $0.4 + 0.15$ soi by answer of 0.19	
		(iii)	375	2	<b>M1</b> for $2500 \times 0.15$ oe	

5	(a)	(	$\frac{7}{24}$ final answer	2	<b>M1</b> for common denominator ie $\frac{x}{24n}$	<b>0</b> for decimals in (i) and (ii)
		(ii)	$3\frac{1}{3}$	3	<b>B2</b> for $\frac{10}{3}$ or $3\frac{2}{6}$ oe  Or <b>M1</b> for $\frac{5}{6} \times \frac{4}{1}$ soi by $\frac{20}{6}$  If <b>0</b> scored then <b>SC1</b> for any correct conversion from top heavy to mixed or for correct cancelling of any fraction	isw after a correct or partially correct answer  Condone 3.3 for <b>3</b> marks 3.3 etc scores <b>0</b>  eg $\frac{20}{24} = \frac{5}{6}$
	(b)		$4, \frac{4}{1}$ oe	1		<b>0</b> for $\frac{1}{0.25}$

6	(a)		$\frac{7}{20}$ oe	2	<b>M1</b> for 1 correct conversion to 20ths, 40ths, etc or one correct decimal conversion	Condone 0.35, 35% for 2
	(b)		$\frac{3}{20}$ oe	2	<b>M1</b> for $\times \frac{1}{5}$ or $0.75 \div 5$	Condone 0.15, 15% for 2 $0.75 \div 5$ must have a reasonable attempt at evaluation.

7	(a)		$\frac{7}{40}$ isw	2	<b>M1</b> for use of common denominator with one correct conversion	
	(b)		$2\frac{4}{5}$	4	<b>M1</b> for one correct conversion to top heavy <b>M1</b> for multiplying either numerators or denominators <b>A1</b> for $\frac{14}{5}$ oe <b>B1FT</b> for correct conversion to simplified mixed number as their answer	Indep. Could be implied eg $\frac{3}{5} \times \frac{3}{4} = \frac{6}{20}$ gets <b>M1</b>

8	(a)		$\frac{1}{15}$	2	<b>M1</b> for $\frac{2}{30}$ oe	Answer may be in body so allow <b>2</b> if $a = \frac{1}{15}$ clearly stated
	(b)		$1\frac{11}{13}$ r $\frac{24}{13}$	4	<b>B3</b> for $\frac{12}{5} \times \frac{10}{13}$ or $\frac{13}{10} \times b = \frac{12}{5}$ oe or $\frac{120}{65}$ oe Or <b>B2</b> for $\frac{12}{5}$ or $2\frac{2}{5}$ Or <b>M1</b> for $\frac{2}{5} \div \frac{1}{6}$ or $\frac{1}{6} \times ? = \frac{2}{5}$ And <b>M1dep</b> for <i>their</i> $\frac{12}{5} \times \frac{10}{13}$	

9	(a)	72	1		
	(b)	(i) $\frac{2}{5}$  (ii)	2  2	<b>M1</b> for $\frac{32}{80}$ oe  <b>M1</b> for $80 \div 5$ or $240 \div 5$ or 16 seen or $\frac{48}{80}$ as final answer	allow $\frac{1}{5}$ of 80 for M1
	(c)	$\frac{3}{5}, \frac{13}{20}, \frac{2}{3}, \frac{11}{15}$ <b>with</b> four correct converted fractions with same denominator seen	4	<b>B3</b> if 3 fractions correct to the same common denominator <b>or B2</b> for any 2 fractions correct to the same common denominator <b>or M1</b> for attempt at converting any 2 fractions to same common denominator  If no other marks scored allow <b>SC1</b> for correct answer $\frac{3}{5} = \frac{36}{60}, \frac{11}{15} = \frac{44}{60}, \frac{2}{3} = \frac{40}{60}, \frac{13}{20} = \frac{39}{60}$	allow if converted to decimals correct to at least 2dp; $\frac{3}{5} = 0.6$ $\frac{13}{20} = 0.65$ $\frac{2}{3} = 0.66$ or 0.67 $\frac{11}{15} = 0.73$ (accept percentages) allow dot notation correctly used  BOD if numerator is not an integer