

Fractions of an Amount Past Paper Questions (MS)



Q1.

5MB2F 01 November 2015				
Question	Working	Answer	Mark	Notes
		80	3	M1 for $120 \div 3 (=40)$ M1 for $120 - "40"$ A1 cao OR M1 for $120 \div 3 (=40)$ M1 for $"40" \times 2$ A1 cao

Q2.

	Working	Answer	Mark	Notes
		360	3	M1 for $480 \div 4 (=120)$ oe M1 for $480 - '120'$ A1 cao OR M1 for $480 \div 4 (=120)$ oe M1 for $'120' \times 3 (=360)$ A1 cao

Q3.

PAPER: 5MB2F 01				
Question	Working	Answer	Mark	Notes
*		Yes with working	4	M1 $9.60 \div 3 (=3.20)$ or $9.60 \times 2 (= 19.20)$ or $9.60 \times \frac{2}{3} (=6.40)$ M1 for a fully correct method to find the cost of the two shirts A1 12.8(0) C1 (dep on M2) ft statement supported by working OR M1 $9.60 \div 3 (=3.20)$ or $9.60 \times \frac{2}{3} (=6.40)$ M1 $13 \div 2$ A1 for 6.4(0) and 6.5(0) C1 (dep on M2) ft statement supported by working

Q4.

PAPER: 5MB1F 01				
Question	Working	Answer	Mark	Notes
		7.31	4	M1 for a correct method to work out the total cost (= 16.92) M1 for a correct method to find $\frac{1}{4}$ of their total cost (or $\frac{3}{4}$) M1 (dep on at least M1) for subtraction from £20 A1 cao



Q5.

PAPER: IMA0 2F				
Question	Working	Answer	Mark	Notes
(a)		$\frac{5}{9}$	1	B1 for $\frac{5}{9}$ oe
(b)		3 squares shaded	1	B1 for any 3 squares shaded
(c)		80	2	M1 for $120 \div 3 (= 40)$ or $2 \times 120 (= 240)$ or $\frac{2}{3} \times 120$ oe A1 cao

Q6.

	Working	Answer	Mark	Notes
		9 squares shaded	1	B1 for any 9 squares shaded oe

Q7.

Question	Answer	Mark	Mark scheme	Additional guidance
	8	B1	cao	

Q8.

Question	Answer	Mark	Mark scheme	Additional guidance
	10	B1	cao	

Q9.

Question	Answer	Mark	Mark scheme	Additional guidance
	No (supported)	P1	for a process to find Rachel's share, eg $600 \div 5 \times 2 (= 240)$	Note This mark, if awarded for 200, may be the only mark awarded
		P1	for process to find Samina's share eg $(600 - "240") \div 4 (= 90)$	
		P1	for a process to find either of Tom's share, eg $600 - "240" - "90" (= 270)$ or $3 \times "90" (= 270)$ or $600 \div 3 (= 200)$ for comparison purposes	
		C1	for "No" and accurate figures eg 270 and 200 or 270 and 70 (difference)	



Q10.

Question	Answer	Mark	Mark scheme	Additional guidance
	11	B1	cao	

Q11.

Question	Answer	Mark	Mark scheme	Additional guidance
	80	P1	for $1 - \frac{13}{15} \left(= \frac{2}{15} \right)$ or $\frac{13}{15} \times 600$ (million) (= 520 (million))	Condone no million or may see 000 000 used* *In this case condone up to two missing 0s for the award of the P marks. For P marks accept $\frac{13}{15}, \frac{2}{15}$ rounded or truncated to no less than 2dp.
		P1	for " $\frac{2}{15}$ " \times 600 (million) (= 80 (million)) or 600 - "520" (=80) oe	
		A1	Accept 80 000 000	

Q12.

Question	Working	Answer	Mark	Notes
	$\frac{2}{5}$ of 14 = 5.60 $\frac{7}{20}$ of 14 = 4.90 14 - 5.60 - 4.90 OR $\frac{2}{5} + \frac{7}{20} = \frac{8}{20} + \frac{7}{20} = \frac{15}{20}$ oe then $14 \times \frac{15}{20} = 10.50$; 14 - 10.50 or $1 - \frac{15}{20} = \frac{5}{20}$; $\frac{5}{20} \times 14$ OR 40% + 35% = 75% 100% - 75% = 25% $14 \times \frac{25}{100}$	3.50	4	M1 for $\frac{2}{5} \times 14$ or $14 \times 2 \div 5$ (=5.6) M1 for $\frac{7}{20} \times 14$ or $14 \times 7 \div 20$ (= 4.9) M1 (dep M1) for 14 - "5.6(0)" - "4.9(0)" A1 for 3.5(0) OR M1 for $\frac{2}{5} + \frac{7}{20}$ (= $\frac{15}{20}$ oe) M1 for $14 \times \frac{15}{20}$ (=10.5) M1 (dep M1) for 14 - "10.5" A1 for 3.5(0) OR M1 for $\frac{2}{5} + \frac{7}{20}$ (= $\frac{15}{20}$ oe) M1 for $1 - \frac{15}{20}$ (= $\frac{15}{20}$ oe) M1 (dep M1) for $14 \times \frac{15}{20}$ A1 for 3.5(0) OR M1 for 40% + 35% (= 75%) M1 for 100% - 75% (= 25%) M1 (dep M1) for $14 \times \frac{25}{100}$ oe A1 for 3.5(0) NB: accept decimal equivalents throughout

Q13.

Question	Working	Answer	Mark	Notes
*	$630 \div 3 = 210$ $630 - 210 = 420$ $100 + 30 \times 12 = 100 + 360 = 460$	Arnold's Computers (since it is £40 cheaper there)	4	M1 for 630 - 630 \div 3 oe or 420 seen M1 for 100 + 30 \times 12 oe or 460 seen A1 for 420 and 460 C1 (dep on m1) for drawing a correct conclusion from <u>their</u> two computer prices

Q14.



Question	Working	Answer	Mark	Notes
	$13.68 + 2 \times 8.10 + 6.99$ $36.87 \div 3$ $40 - 24.58$ OR $(13.68 \div 3) \times 2 = 9.12$ $(8.10 \div 3) \times 2 = 5.40$ $(6.99 \div 3) \times 2 = 4.66$ $9.12 + 5.40 + 5.40 +$ $4.66 =$ 24.58 $40 - 24.58$	15.42	4	M1 for $13.68 + 2 \times 8.10 + 6.99$ oe $(=36.87)$ M1 for $(\text{"}36.87\text{"} \div 3) \times 2$ oe or $\text{"}36.87\text{"} - (\text{"}36.87\text{"} \div 3)$ oe M1 for $40 - \text{"}24.58\text{"}$ A1 cao OR M1 for $(13.68 \div 3) \times 2$ or $(8.10 \div 3) \times 2$ or $(6.99 \div 3) \times 2$ oe M1 for $\text{"}9.12\text{"} + 2 \times \text{"}5.40\text{"} + \text{"}4.66\text{"}$ M1 for $40 - \text{"}24.58\text{"}$ A1 cao OR M1 for $(13.68 \div 3) \times 2$ or $(8.10 \div 3) \times 2$ or $(6.99 \div 3) \times 2$ M1 for subtracting the special offer cost of at least one of each item from 40 M1 for successively subtracting costs of all 4 items A1 cao