

Ratio Fraction Problems

November 2023 Paper 3

Question	Answer	Mark	Mark scheme	Additional guidance
11	$\frac{7}{25}$	M1 A1	for $\frac{n}{2+16+7}$ where n is an integer < 25 cao	

June 2023 Paper 1

Question	Answer	Mark	Mark scheme	Additional guidance
14 (a)	27	B1	cao	Award 0 marks for a correct answer with no supportive working.
(b)	$\frac{2}{7}$	B1	or any equivalent fraction	
(c)	No (supported)	P1	for method to find the number of children on Friday eg 0.7×500 oe (= 350)	
		P1	for method to find the number of children on Saturday eg $720 \div 8 \times 5$ oe (= 450)	
		C1	for No with correct figures, eg No and 350 and 450 or No and 100 more on Saturday	

June 2020 Paper 2

Question	Answer	Mark	Mark scheme	Additional guidance
19	$\frac{3}{10}$	P1 A1	for a process to find three amounts in the correct proportions, eg $R = 1, L = 3 \times 1 = 3, A = 2 \times 3 = 6,$ or $R : L : A = \frac{1}{6} : 0.5 : 1$ oe or $L=3R, L=\frac{A}{2}$ or $L=3R, 2L=A$ for $\frac{3}{10}$ or equivalent fraction	Relationship could be given in algebraic form or in ratio form, using fractional comparison or using their own figures Award P1 for correct answer not given as a fraction

June 2024 Paper 2

Question	Answer	Mark	Mark scheme	Additional guidance
25	Yes, supported by correct figures	P1	<p>for a process to find the number of sweets Tina gives to Andy, eg $14 \div 7 \times 3 (=6)$</p> <p>or for a process to work with fractions of the total to find fraction given to Andy, eg $\frac{14}{21} \times \frac{3}{7} \left(= \frac{2}{7} \right)$</p> <p>or for dividing a given number (eg 441) in the ratio 1 : 6 : 14 (= 21 : 126 : 294)</p>	<p>May work with an equivalent ratio, eg 21 : 126 : 294 and do $294 \div 7 \times 3 (=126)$ as a first step</p> <p>May work in multiples of x for all marks</p>
		P1	<p>for a process to find number for Andy and Tina after first exchange, eg A = 1 + "6" (=7) and T = 14 - "6" (=8)</p> <p>or for a process to find the number of sweets Tina gives to Luke</p> <p>eg ("14" - "6") $\times \frac{12.5}{100} (=1)$</p> <p>or for a process to work with fractions of the total to find fraction given to Luke, eg for $\frac{(14 - "6")}{21} \times \frac{12.5}{100}$</p> <p>or process to work out the number of sweets given to Andy and Luke for their total, eg "$294 \div 7 \times 3 (=126)$" and ("$294 - "126" \times \frac{12.5}{100} (=21)$")</p>	
		P1	<p>for a process to find the final amounts or final shares for at least two of Andy, Luke and Tina</p> <p>eg two of 1 + "6" (= 7) , 6 + "1" (= 7) , 14 - "6" - "1" (= 7)</p> <p>or $\frac{1}{21} + \frac{"2"}{7} \left(= \frac{7}{21} \right)$, $\frac{6}{21} + \frac{1}{21} \left(= \frac{7}{21} \right)$, $\frac{14}{21} - \frac{2}{7} - \frac{1}{21} \left(= \frac{7}{21} \right)$</p> <p>or "21" + "126" (= 147) , "126" + "21" (= 147) , "294" - "126" - "21" (= 147)</p>	
		C1	<p>Yes, supported by full working and accurate figures for Andy, Luke and Tina</p>	<p>Accurate figures with no supportive working scores 0</p>