FRACTIONS OF AN AMOUNT

Pearson Edexcel - Tuesday 19 May 2020 - Paper 1 (Non-Calculator) Higher Tier

1.

23	$\dfrac{27}{56}$	P1	for $\dfrac{3}{8}$ **and** $\dfrac{7}{9}$ **OR** uses a total of 72 cards and shows a process to find the number of cards with a black shape **or** the number of cards with a triangle, eg $72 \div 8 \times 3 \ (=27)$ **or** $72 \div 9 \times 7 \ (=56)$	72 or any multiple of 72 Could be seen in a ratio, eg 27 : 45 or 16 : 56
		P1	for process shown to divide fractions $\dfrac{3}{8} \div \dfrac{7}{9}$ **or** $\dfrac{3}{8} \times \dfrac{9}{7}$ **OR** for $\dfrac{3}{8} \times \dfrac{9}{9} \ (=\dfrac{27}{72})$ **and** $\dfrac{7}{9} \times \dfrac{8}{8} \ (=\dfrac{56}{72})$ **OR** uses a total of 72 cards and shows a process to find the number of cards with a black shape **and** the number of cards with a triangle, eg $72 \div 8 \times 3 \ (=27)$ **and** $72 \div 9 \times 7 \ (=56)$	Accept the division shown as $\dfrac{\frac{3}{8}}{\frac{7}{9}}$ Could be seen in ratios, eg 27 : 45 and 16 : 56
		A1	for $\dfrac{27}{56}$ or any other equivalent fraction	Answer of 27 : 56 gets P2A0

Pearson Edexcel - Tuesday 21 May 2019 - Paper 1 (Non-Calculator) Higher Tier

2.

12	$\dfrac{4}{9}$	P1	for process to find link between volume of Q and volume of P **or** between volume of R and volume of Q, eg ratio 1.5 : 1 **or** Q = 1.5P **or** P = $\dfrac{2}{3}$ Q **or** two values in the ratio 1 : 1.5 such as 100 and 150	
		P1	for process to find link between volume of R and volume of P eg 1.5^2 : 1 **or** two values in the ratio 1 : 2.25 such as 100 and 225	$1.5^2 \ (=\dfrac{9}{4})$ is enough for this mark, award P1P1
		A1	for $\dfrac{4}{9}$ oe fraction eg $\dfrac{100}{225}$	Accept P = $\dfrac{4}{9}$ R