

Percentages Past Paper Questions (MS)



Q1.

Question	Working	Answer	Mark	Notes
		40	B1	cao

Q2.

Paper 1MA1: 2F			
Question	Working	Answer	Notes
		63	M1 for a method to find A1 percentage of a quantity

Q3.

Paper 1MA1: 1F			
Question	Working	Answer	Notes
		12	M1 M1 for 0.15×80 oe or $8 + 4$ A1 cao

Q4.

Paper 1MA1: 3F			
Question	Working	Answer	Notes
		351	M1 for 2.34×150 oe A1

Q5.

Question	Working	Answer	Mark	Notes
		42	M1 A1	for showing method to work out 60% of 70, eg 0.6×70 or $(70 \div 10) \times 6 (= 42)$ cao



Q6.

Question	Working	Answer	Mark	Notes
		10.80	2	M1 for complete correct method to find 20% A1 for £10.8(0)

Q7.

PAPER: 1MA0_IF				
Question	Working	Answer	Mark	Notes
		48	2	M1 for method to find 15% of 320 A1 cao

Q8.

Question	Working	Answer	Mark	Notes
		1545	M1 A1	shows a method to find 3% eg $1500 \times 0.03 (=45)$ cao

Q9.

Question	Working	Answer	Mark	Notes
		459	3	M1 $\frac{32}{100} \times 675 (= 216)$ oe or $100 - 32 (= 68)$ M1 $675 - "216"$ or 0.68×675 A1 cao



Q10.

Question	Answer	Mark	Mark scheme	Additional guidance
	3240	P1	for $90 \times 60 (= 5400)$ OR $40 \div 100 \times 90 (= 36)$ OR $40 \div 100 \times 60 (= 24)$	
		P1	for a process to work out area that is flowers eg. $40 \div 100 \times "5400" (= 2160)$ OR $"36" \times 60 (= 2160)$ OR $90 \times "24" (= 2160)$	
		P1	for a full process to find the area that is grass eg. $"5400" - "2160" (= 3240)$	
		A1	cao	
			ALTERNATIVE	
		P1	for $100 - 40 (= 60)$	
		P1	(indep) for $90 \times 60 (= 5400)$ OR $90 \times 60 \div 100 (= 54)$ or $60 \times 60 \div 100 (= 36)$	
		P1	for a full process to find the area that is grass eg. $"60" \div 100 \times "5400" (= 3240)$ OR $"54" \times 60 (= 3240)$ or $"36" \times 90 (= 3240)$	
		A1	cao	

Q11.

PAPER: 5MB3F 01				
Question	Working	Answer	Mark	Notes
		600	3	M1 $0.04 \times 5000 (= 200)$ M1 $3 \times "200"$ or sight of 5600 A1 cao

Q12.

Question	Working	Answer	Mark	Notes
		63	2	M1 for $\frac{30}{100} \times 210$ or 0.3×210 or $21 + 21 + 21$ oe A1 cao



Q13.

Question	Working	Answer	Mark	Notes
		70	M1 M1 A1	for method to find 3.5% of 400 , e.g. $0.035 \times 400 (= 14)$ (dep M1) for "14" $\times 5 (= 70)$ cao SCB2 for 470 or 330 if no other marks awarded

Q14.

Question	Working	Answer	Mark	Notes
		Steve with correct figures	P1 P1 P1 C1	for a process to find the number of green apples for one person, e.g. $264 \div 6 (= 44)$ or $0.28 \times 150 (= 42)$ or $0.15 \times 340 (= 51)$ for a process that would lead to the number of green apples for two people, e.g. two of: $264 \div 6 (= 44)$ or $0.28 \times 150 (= 42)$ or $0.15 \times 340 (= 51)$ for a process that would lead to the number of green apples for all three people, e.g. $264 \div 6 (= 44)$ and $0.28 \times 150 (= 42)$ and $0.15 \times 340 (= 51)$ 44, 42, 51 with a correct conclusion

Q15.

Question	Answer	Mark	Mark scheme	Additional guidance
	612	P1 P1 P1 P1 A1	Alan: for $100 - 32 - 40 (= 28)$ or for finding "28"% of 400 eg $400 \times 0.28 (=112)$ Beryl: for $1 - \frac{3}{10} - \frac{1}{10} \left(= \frac{6}{10} = 60\% \right)$ or for finding " $\frac{6}{10}$ " $\times 500 (=300)$ Charlie: for starting to use the ratio 3 : 4 eg $150 \div 3 (=50)$ for complete ratio process eg " $\frac{150}{3}$ " $\times 4$ (=200) cao	Answers only (without working) award 0 marks.

Q16.



Question	Working	Answer	Mark	Notes
		24	P1	for start to a process to find cost for students, e.g. $100 - 80 (= 20)$ or $180 \times \frac{80}{100} (= 144)$
			P1	for complete process, e.g. $180 \times \frac{20}{100} (= 36)$ or $180 - 144 (= 36)$
			P1	for start to the process to find "36" $\div 1.5$, e.g. $360 \div 15$
			A1	cao