Reverse Percentages Past Paper Questions (MS)

Q1.

Question	Answer	Mark	Mark scheme	Additional guidance
	40	P1	for $100 - 30$ (=70) **or** $1 - 0.3$ (=0.7) **or** $1 - \frac{3}{10}$ $(= \frac{7}{10})$ **or** $28 \div 7 \times 3$ (=12)	
		P1	for a complete process eg $28 \div$ ("70" $\div 10) \times 10$ oe **or** $28 +$ "12"	
		A1	cao	

Q2.

Question	Answer	Mark	Mark scheme	Additional guidance
	320 000	M1	for a complete method eg $272\,000 \div (\frac{100-15}{100})$	
		A1	cao	

Q3.

Question	Answer	Mark	Mark scheme	Additional guidance
	16 000	M1	for $13600 \div 0.85$ (= 16000) oe	
		A1	cao	

Q4.

Question	Answer	Mark	Mark scheme	Additional guidance
	130	P1	process to find the total number of children, eg $214 - 14$ (= 200)	
		P1	process to find the number of children wearing a hat, eg "200" $\times 35 \div 100$ (= 70) **or** process to find the multiplier for the percentage of children not wearing a hat, eg $(100 - 35) \div 100$ (= 0.65)	
		P1	for full process to find the number of children not wearing a hat, eg "200" – "70" **or** "200" × "0.65" **or** 214 – "70" – 14	
		A1	cao	

Q5.

Question	Answer	Mark	Mark scheme	Additional guidance
	152000	M1 A1	for a complete method eg 165680 ÷ 109 × 100 or 165680 ÷ 1.09 oe cao	

Q6.

Question	Working	Answer	Mark	Notes
		4	M1 A1	for a complete method eg 2.80 × 100 ÷ (100−30) oe **or** 2.80 ÷ 0.7 oe **or** for build up method but must show all intermediate steps unless all figures are correct eg 2.8 ÷ 7 = 0.4 and "0.40" × 10 (=4) cao

Q7.

Paper 1MA1: 1F			
Question	Working	Answer	Notes
		75	P1 for start to process eg. linking 20% with 15 or 100 ÷ 5 (= 20) A1

Q8.

Question		Working	Answer	Mark	Notes
			46	2	M1 links 5% with 2.30 or 100 ÷ 5 (= 20) A1 cao

Q9.

Question	Working	Answer	Mark	Notes
		207.50	M1 M1 A1	for a first step to solve the problem, e.g. 42.5 ÷17 for a complete method cao