Mark scheme

Reverse percentages

Mathematics 0580 · Questions from Paper 2 and Paper 4

Total marks

26

MARKS FOR EACH QUESTION

1	2	3	4	5	6	7	8	9	10	Total
2	2	2	2	3	3	3	3	3	3	**26**

Question 1 **[2]**

1	96	**2**	**M1** 72 / 0.75 oe or **M1** $0.75x = 72$ oe

Question 2 **[2]**

2	18	2	**M1** for $21.6 \div 1.2$ oe

Question 3 **[2]**

3	145	**2**	**M1** for $x\left(1+\frac{6}{100}\right) = 153.7$ oe or better

Question 4 **[2]**

4	475	**2**	**M1** for $x \times \frac{8}{100} = 38$ or for $\frac{38}{8} \times 100$ oe

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Question 5 **[3]**

5		460	**3**	**M2** for $\frac{391\times100}{(100-15)}$ oe or **M1** for recognising 391 as (100 – 15)% soi

Question 6 **[3]**

6	68.5 www	**3**	**M2** for 67.13 ÷ 0.98 or **M1** for 67. 13 is 98%

Question 7 **[3]**

7	1050	**3**	**M2** for $924 \div \frac{(100-12)}{100}$ oe or **M1** for 88[%] associated with 924 oe

Question 8 **[3]**

8	2500 nfww	**3**	**M2** for $2475 \div \left(1-\frac{1}{100}\right)$ oe or **M1** for 2475 associated with 99%

Question 9 **[3]**

9	55	**3**	**B2** for 250 or **M2** for (305 ÷ 122) × 22 oe or better or **M1** for $\left(1+\frac{22}{100}\right)m = 305$ oe or better

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Question 10 **[3]**

10	492.2[0]	**3**	**B2** for 32.2[0] OR **M1** for $x\times\left(1-\frac{7}{100}\right)=427.8[0]$ oe or better **M1** for *their* $460\times\left(1+\frac{7}{100}\right)$ oe or *their* $460\times\frac{7}{100}$ correctly evaluated

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