

Problem Solving & Word Problems: Medium Practice Paper 3 Answers

Q#	Answer	Explanation
1	C	Divide the rolls by the bag size: $156 \div 12 = 13$ bags.
2	C	The five scores total $5 \times 14 = 70$. The four given scores total 56, so the fifth is $70 - 56 = 14$.
3	C	25% of £80 is £20, so the sale price is $£80 - £20 = £60$.
4	D	There are $2 + 3 = 5$ shares, so one share is $40 \div 5 = 8$ sweets. The second child gets 3 shares, which is $3 \times 8 = 24$.
5	D	The three lessons and the break take $50 + 50 + 15 + 50 = 165$ minutes, which is 2 hours 45 minutes. From 09:00 that gives 11:45.
6	D	Working backwards, take away the 12 to get $20 - 12 = 8$, then multiply by 5 to get $8 \times 5 = 40$.
7	D	A day is 24 hours, so the water is $24 \times 250 = 6000$ ml, which is 6 litres.
8	C	Each decorator papers $6 \div 4 = 1.5$ rooms in a day, so 10 decorators paper $10 \times 1.5 = 15$ rooms.
9	D	One cake costs $£9 \div 12 = 75\text{p}$, so £15 buys $1500 \div 75 = 20$ cakes.
10	C	One third of 150 km is 50 km completed, so the distance left is $150 - 50 = 100$ km.
11	D	£7 is 700p, so the number of coins is $700 \div 20 = 35$.
12	B	One length plus one width is half the perimeter, which is 18 cm, so the width is $18 - 12 = 6$ cm.
13	C	His father is $4 \times 8 = 32$ now, so in 5 years he will be $32 + 5 = 37$.
14	C	2.4 kg is 2400 g, so the mean weight is $2400 \div 3 = 800$ g.
15	B	The first square uses 4 and every extra square adds 3 more, so 10 squares use $4 + 9 \times 3 = 31$ matchsticks.