Problem Solving & Word Problems: Medium Practice Paper 5 Answers

Q#	Answer	Explanation
1	B	The sandwiches cost 3 × £3.20 = £9.60 and the teas cost 2 × £1.40 = £2.80, so the bill is £9.60 + £2.80 = £12.40.
2	C	Divide the bill by the number of people: £46 ÷ 4 = £11.50.
3	C	10% of 45 is 4.5, so 60% is 6 × 4.5 = 27.
4	C	The trays hold 7 × 18 = 126 eggs, and after 4 are broken there are 126 − 4 = 122 left.
5	C	The total is the mean multiplied by how many there are: 5 × 140 = 700 cm.
6	C	Working backwards, multiply by 4 to get 18 × 4 = 72, then divide by 6 to get 72 ÷ 6 = 12.
7	D	The area is 12 × 9 = 108 m², so the cost is 108 × £15 = £1620.
8	C	Five coaches hold 250 pupils, which leaves 8 pupils without a seat, so a sixth coach is needed.
9	D	Each bun uses 300 ÷ 12 = 25 g of sugar, so 18 buns use 18 × 25 = 450 g.
10	B	The numbers go down by 7 each time. From the first number, six more steps of 7 give 100 − 42 = 58.
11	B	Using the largest coins first gives 50p + 20p + 10p + 5p + 2p = 87p, which uses 5 coins.
12	C	The lessons take 6 × 45 = 270 minutes, and adding the break gives 290 minutes, which is 4 hours 50 minutes.
13	D	There are 5 + 3 = 8 shares, so one share is 64 ÷ 8 = 8 pupils. The boys are 5 shares, which is 5 × 8 = 40.
14	B	One third of £30 is £10, leaving £20, and after lunch he has £20 − £6 = £14.
15	D	Each machine makes 180 ÷ 3 = 60 items an hour, so 5 machines in 2 hours make 5 × 2 × 60 = 600 items.

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