

Problem Solving & Word Problems: Medium Practice Paper 6 Answers

Q#	Answer	Explanation
1	B	The burgers come to $2 \times 3.20 = 6.40$ and the drinks to $3 \times 1.10 = 3.30$. Adding the salad, $6.40 + 2.50 + 3.30 = 12.20$, so the bill is £12.20.
2	B	Work out the cost of one carton in each pack: $3.00 \div 4 = 0.75$, then $4.20 \div 6 = 0.7$ and $7.50 \div 10 = 0.75$. The medium pack is the cheapest at 70p a carton.
3	E	Read the two bars from the scale: Class B sold 20 tickets and Class D sold 16, so together they sold $20 + 16 = 36$. At £2 each that raises $36 \times 2 = 72$ pounds.
4	D	Bus C reaches the Hospital at 09:45, which is too late. Bus B arrives at 09:15, which is in time, so the latest Ravi can leave Oak Road is on Bus B at 08:40.
5	C	Each of the 4 sandwiches can be put with any of the 3 drinks, so there are $4 \times 3 = 12$ different pairs altogether.
6	A	One person needs $300 \div 4 = 75$ grams. A kilogram is 1,000 g, and dividing 1,000 by 75 gives 13 portions with 25 g left over, which is not enough for a fourteenth person.
7	A	Every pupil is counted once by adding the four regions of the diagram: $11 + 7 + 5 + 4 = 27$. The 4 outside the circles still belong to the class even though they play neither sport.
8	D	The magazines cost $3 \times 2.30 = 6.90$ pounds. Adding back what is left gives $6.90 + 5.60 = 12.50$, so she started with £12.50.
9	E	First find the distance for one litre: $240 \div 30 = 8$ miles. Then 45 litres carries the car $8 \times 45 = 360$ miles.
10	A	Dividing tells her how many full boxes 100 eggs would fill, which is 8 boxes with 4 eggs over. She must round up to 9, because those last 4 eggs still need a box of their own.

11	C	Multiply each score by how often it happened: the one-goal matches give $6 \times 1 = 6$, the two-goal matches give $3 \times 2 = 6$ and the three-goal matches give $2 \times 3 = 6$. Altogether $6 + 6 + 6 = 18$ goals, as the four matches with no goals add nothing.
12	B	Ten per cent of 60 is 6, so the total bill is $60 + 6 = 66$ pounds. Shared four ways that is $66 \div 4 = 16.5$, which is £16.50 each.
13	D	Count on in steps. Going from 14:35 to 17:00 takes 2 hours 25 minutes, and another 10 minutes reaches the arrival time. From 14:35 to 17:10 is 2 hours and 35 minutes.
14	E	Thirteen full minibuses carry $13 \times 15 = 195$ pupils. That leaves $196 - 195 = 1$ pupil, who travels alone in the fourteenth minibus.
15	C	Each whole symbol stands for 10 ice creams, so a half symbol is 5. Thursday shows 25 and Saturday shows 45, and $45 - 25 = 20$.