Data Handling & Probability: Medium Practice Paper 5 Answers

Q#	Answer	Explanation
1	D	Find the bar above the 6-8 band and read across to the scale. The top of the bar is level with 12 pupils.
2	B	Every pupil is counted in exactly one band, so add all four bars: 3 + 8 + 12 + 7 = 30 pupils.
3	A	The bands of 6 marks or more are 6-8 and 9-10, so add those two bars: 12 + 7 = 19 pupils.
4	C	Thursday has 2 whole circles and 1 half circle. The whole circles are 2 × 10 = 20 pizzas, and the half circle is 5 more, giving 20 + 5 = 25.
5	B	One circle is 10 pizzas and a half circle is 5, so 15 pizzas needs one whole circle and a half circle. Tuesday is the row drawn like that.
6	E	The range is the largest take away the smallest. The largest is 20 and the smallest is 12, so the range is 20 − 12 = 8.
7	C	Work out the goals altogether: 3 matches of 1 goal is 3, 5 matches of 2 goals is 10, and 2 matches of 3 goals is 6, giving 3 + 10 + 6 = 19 goals. Over 10 matches the mean is 19 ÷ 10 = 1.9.
8	A	The multiples of 5 up to 20 are 5, 10, 15 and 20, so 4 cards win out of 20. The probability is 4 out of 20, which simplifies to 1/5.
9	D	Two of the 6 sections are A, so the other 6 − 2 = 4 sections are not A. The probability is 4 out of 6, which simplifies to 2/3.
10	E	At least one means everyone inside the two circles, which is 10 + 8 + 6 = 24 pupils. The 4 outside are left out.
11	C	There are 10 + 8 + 6 + 4 = 28 pupils altogether and 8 of them are in the overlap. That is 8 out of 28, and dividing both numbers by 4 gives 2/7.
12	A	March reaches 60 and April drops to 40, so the fall is 60 − 40 = 20.

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13	B	Half of the circle stands for half of the pupils, and half of 36 is 36 ÷ 2 = 18 pupils.
14	D	Add the whole right-handed column, both boys and girls: 14 + 11 = 25 pupils.
15	E	A quarter of the spins are expected to be red, and a quarter of 80 is 80 ÷ 4 = 20 spins.

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