Data Handling & Probability: Medium Practice Paper 1 Answers

Q#	Answer	Explanation
1	B	Find the Wednesday bar and read across to the scale. Its top is halfway between 20 and 40, which is 30 visitors.
2	D	The whole week is 40 + 60 + 30 + 50 + 20 = 200 visitors, and Tuesday had 60. That is 60 out of 200, and dividing both numbers by 20 gives 3/10.
3	E	A full turn is 360° shared between 40 pupils, so each pupil is worth 360 ÷ 40 = 9°. The 10 bus pupils take 10 × 9 = 90°.
4	A	Read along the Girls row until it meets the Hockey column. The number written there is 9.
5	C	Add the whole netball column, both boys and girls: 3 + 14 = 17 pupils.
6	D	Add them all: 14 + 9 + 21 + 6 + 15 + 13 = 78. There are six numbers, so the mean is 78 ÷ 6 = 13.
7	B	In order they are 5, 7, 9, 12, 14, 19. With six numbers there is no single middle one, so take the mean of the third and fourth: 9 + 12 = 21, and 21 ÷ 2 = 10.5.
8	E	The range is the largest take away the smallest. The largest is 9.1 and the smallest is 1.9, so the range is 9.1 − 1.9 = 7.2.
9	C	There are 8 + 6 + 10 = 24 counters and 10 are green, so the probability is 10 out of 24. Dividing both numbers by 2 gives 5/12.
10	D	The train is either late or not late, and those two chances add up to 1 whole. So the answer is 1 − 3/10 = 7/10.
11	A	Divide the books by what one circle is worth: 21 ÷ 6 = 3 with 3 left over. The 3 left over is half of 6, so 3 whole circles and a half circle are needed.

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12	B	The steepest part of the line shows the biggest rise. From February to March the line climbs from 24 to 38, a rise of 14, which beats every other step.
13	E	Since 5 play neither, 30 − 5 = 25 pupils play at least one sport. Adding the two lists gives 18 + 14 = 32, which counts the both group twice, so the both group is 32 − 25 = 7.
14	A	The mode is the score that happened most often. Scoring 1 goal happened in 7 matches, more than any other score, so the mode is 1 goal.
15	C	Two of the 5 sections are Red, so Red is expected on 2/5 of the spins. That is 2/5 × 40 = 16 spins.

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