Rounding & Estimating: Medium Practice Paper 8 Answers

Q#	Answer	Explanation
1	A	Rounding each bar to the nearest 10 gives 50, 60, 50 and 50. Only Tuesday, at 63, has a ones digit small enough to keep it in the sixties while the others all round to 50.
2	D	Round to easy numbers: about 50 books at about £10 each. Since 50 × 10 = 500, the takings are roughly £500.
3	D	Ten centimetres is a tenth of a metre, so this is rounding to one decimal place. The next digit is 4, which is less than 5, so the length rounds down to 1.8 m.
4	B	Measuring to the nearest 10 cm means the true length is within 5 cm of 1.4 m. So it lies between 1.35 m and 1.45 m, and the shortest is 1.35 m.
5	E	To round to 250 the number must be at least 245 and less than 255. The value 255 is exactly halfway to the next ten, so it rounds up to 260 instead.
6	C	Round each number: about 6 lots of about 40. Since 6 × 40 = 240, the answer is roughly 240.
7	A	Rounding to one decimal place is decided by the hundredths digit. In 8.95 that digit is 5, so the number rounds up to 9.0, not down to 8.9. The other three rows are correct.
8	B	The multiples of 10p on either side are £6.40 and £6.50. The price is 7p above £6.40 but only 3p below £6.50, so it rounds to £6.50.
9	E	Every score is close to 40, so the mean must be close to 40 as well. Checking, the scores total 200 and 200 ÷ 5 = 40 exactly.
10	C	Rounding to the nearest 50 means the true number is within 25 of 700. So it lies from 675 up to 725, and the smallest is 675.
11	D	The car sector takes up about a quarter of the chart. A quarter of 400 is 400 ÷ 4 = 100, so roughly 100 people came by car.

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12	E	Round the stadium to 40,000 people. Since 1,500,000 ÷ 40,000 is close to 37.5, the answer is about 40 stadiums.
13	A	Rounding must be done once, in a single step, looking only at the digit after the place being kept. That digit is 7, so 4.47 rounds up to 4.5. Rounding again afterwards is the mistake Ali made.
14	C	Round both numbers: about 1,200 cm cut into pieces of about 40 cm. Since 1,200 ÷ 40 = 30, roughly 30 pieces can be cut.
15	B	The first significant figure is the 4 and the second is the 9, so the rounding is decided by the next digit, which is 6. That rounds the 9 up, carrying into the 4 to give 0.050.

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