Rounding & Estimating: Medium Practice Paper 7 Answers

Q#	Answer	Explanation
1	A	Rounding to the nearest thousand is decided by the hundreds digit, which is 7. As 7 is 5 or more the number rounds up to 7,000, not down to 6,000. The other two rows are correct.
2	C	Round to easy numbers: about 400 km on about 40 litres. Since 400 ÷ 40 = 10, the car travels roughly 10 km on each litre.
3	E	The quarter hours on either side are 1 hour 45 minutes and 2 hours. The film is 7 minutes past the first but 8 minutes short of the second, so the nearer one is 1 hour 45 minutes.
4	C	Rounding to the nearest 100 g means the true weight is within 50 g of 3 kg. So it lies between 2.95 kg and 3.05 kg, and the greatest value is 3.05 kg.
5	D	Round the bill to £50, which divides easily. Since 50 ÷ 5 = 10, each share is roughly £10.
6	D	Each symbol stands for 20 books, so the days show 60, 50 and 80, and 60 + 50 + 80 = 190 books. To the nearest hundred that is 200.
7	A	He rounded the first number down and the second one up, and both changes make the answer come out smaller. So the true answer must be bigger than 40, and indeed 812 ÷ 19 is nearly 43.
8	B	To give 7.4 to one decimal place the number must be at least 7.35 and below 7.45, which rules out 7.29 and 7.45. To give 7 to the nearest whole number it must also be below 7.5, and 7.38 satisfies both.
9	E	Round the numbers first: the room is about 4 m by 3 m, so its area is about 4 × 3 = 12 square metres. At about £20 for each one, the cost is roughly 12 × 20 = 240 pounds.
10	D	The multiples of 50 on either side are 250 and 300. As 273 is 23 above 250 but 27 below 300, it is nearer to 250.

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11	C	The true answer is 297 × 6 = 1782. Ann's estimate is 18 away, Ben's is 42 away, and the other two are hundreds out, so Ann is closest.
12	A	To give 350 to the nearest ten the number must be from 345 to 354, which rules out 344, 358 and 335. To give 300 to the nearest hundred it must also be below 350, so 352 is out and 347 is left.
13	B	Round each number to something easy: about 60 divided by about 3. Since 60 ÷ 3 = 20, the answer is roughly 20.
14	B	The first two significant figures are the 2 and the 8, so the rounding is decided by the next digit, which is 4. As 4 is less than 5 the number rounds down to 28,000.
15	E	A door is a little taller than an adult, so metres are the sensible unit and 2 m is about right. Giving it to six decimal places is far more accuracy than any tape measure could offer.

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