Rounding & Estimating: Easy Practice Paper 6 Answers

Q#	Answer	Explanation
1	B	Multiples of 10 end in 0. Counting in tens, 360 comes just before 364 and 370 comes just after it. The ones digit, 4, is less than 5, so 364 is nearer to 360.
2	D	532 lies between 500 and 600. The tens digit is 3, which is less than 5, so the nearest hundred is 500. The distance is 532 − 500 = 32.
3	E	The whole numbers between 45 and 50 are 46, 47, 48 and 49. Each has a ones digit bigger than 5, so each is past the halfway mark and nearer to 50 than to 40. The number rounds up to 50.
4	C	Look at the tens digit each time. In 250 the tens digit is 5, so it rounds up to 300. In 412 it is 1, in 349 it is 4, in 608 it is 0 and in 731 it is 3. Those are all less than 5, so those numbers round down.
5	D	£6.90 rounds up to £7 because 90p is more than 50p. £7.10 rounds down to £7 because 10p is less than 50p. £4.95 rounds up to £5. The estimate is 7 + 7 + 5 = 19, so about £19, which is less than £20.
6	A	65 − 60 = 5 and 70 − 65 = 5, so 65 is exactly in the middle. This is why a ones digit of 5 is the turning point in rounding: by agreement, a number exactly halfway rounds up, so 65 rounds to 70.
7	C	When rounding to the nearest 10, look at the digit one place to the right of the tens, which is the ones digit. If it is 5 or more the number rounds up, and if it is 4 or less it rounds down.
8	E	35 has a ones digit of 5, so it rounds up to 40. 44 has a ones digit of 4, so it rounds down to 40. In every other pair one number rounds down and the other rounds up to a different ten, for example 24 rounds to 20 but 25 rounds to 30.
9	B	To round to the nearest 100, look at the tens digit. In 748 the tens digit is 4, which is less than 5, so the number rounds down to 700. Jay probably looked at the ones digit, 8, by mistake.

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10	D	Find how far each number is from 500. Monday: 500 − 462 = 38. Tuesday: 529 − 500 = 29. Wednesday: 541 − 500 = 41. Thursday: 500 − 478 = 22. Friday: 500 − 455 = 45. The smallest gap is 22, so Thursday is closest.
11	A	19 and 21 are not greater than 22. 24 is even. 25 has a ones digit of 5, so it rounds up to 30. 23 is odd, greater than 22, and its ones digit of 3 rounds it down to 20.
12	E	The numbers that round to 80 are the whole numbers from 75 to 84. Every one of them has a tens digit of 7 or 8, which is 5 or more, so each rounds up to 100 when rounded to the nearest 100.
13	A	187 has a tens digit of 8, so it rounds up to 200. 212 has a tens digit of 1, so it rounds down to 200. To the nearest ten they are different: 187 rounds to 190 and 212 rounds to 210.
14	B	Look at the pence. 50p or more rounds up to the next pound, and less than 50p rounds down. £5.50 has exactly 50p, so it rounds up to £6. £4.50 and £4.75 round up to £5, and £5.49 and £5.05 round down to £5.
15	D	Add 3 to each choice and round. 45 gives 48, 48 gives 51, 49 gives 52 and 51 gives 54, and all of those round to 50. Only 52 works: 52 rounds down to 50, and 52 + 3 = 55, which has a ones digit of 5 and so rounds up to 60.

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