Place Value: Hard Practice Paper 3 Answers

Q#	Answer	Explanation
1	B	0.03 divided by 1000 is 0.00003. The first place is tenths, second hundredths, third thousandths, fourth ten-thousandths, fifth hundred-thousandths.
2	A	The 6 in 4.61 is 0.6. The 6 in 0.062 is 0.06. Sum = 0.66. Multiplying 0.66 by 10 gives 6.6.
3	E	44.94 rounded to 1 decimal place is 44.9, not 45.0. The other options all round correctly to both 45 and 45.0.
4	A	Convert to decimals: 3/8 = 0.375, 3/10 = 0.3. Order: 0.3, 0.308, 0.375, 0.38. The third number is 0.375, which is 3/8.
5	C	Remainder 1 when divided by 10 means the units digit is 1. To round to 500, the maximum number can be 549. So the largest ending in 1 is 541.
6	A	Cancel three zeros from both numbers to simplify to 4000 divided by 8. 4000 / 8 = 500.
7	A	Let digits be x, x-1, x-2, x-3, x-4. Their sum is 5x - 10 = 30, so 5x = 40 and x = 8. The number is 87654. The tens digit is 5, so its value is 50.
8	D	To change 0.45 into 45,000, the decimal point must move 5 places to the right. This requires multiplying by 100,000.
9	B	Convert to decimals: 12 tenths = 1.2, 105 hundredths = 1.05, 1100 thousandths = 1.1, 1.1 units = 1.1, 1 unit and 1 tenth = 1.1. The smallest is 1.05.
10	B	The hundred thousands digit is 7, which means you round up. 299 million rounds up to 300 million.
11	A	Add the numbers: 0.08 + 0.008 = 0.088. Divide by 2 to find the midpoint: 0.088 / 2 = 0.044.
12	A	Multiplying by 100 moves digits 2 places left. Dividing by 10,000 moves them 4 places right. Overall, the digits move 2 places to the right.

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13	B	Multiplying by 10 moves every digit one place value larger. The millions column moves to the ten millions column.
14	D	The digit 9 appears in the units place 10 times (9, 19, 29...99) and in the tens place 10 times (90, 91...99). Note that 99 has two 9s. Total is 20.
15	A	The 3 in 5.31 is worth 0.3. The 3 in 4.03 is worth 0.03. The difference is 0.3 - 0.03 = 0.27.

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