

Rounding & Estimating: Medium Practice Paper 2 Answers

Q#	Answer	Explanation
1	D	The first significant figure is 4. The next digit is 7, which is 5 or more, so we round up. $4,730 \rightarrow 5,000$.
2	D	The first significant figure is 2. The next digit is 8, which is 5 or more, so we round up. $283 \rightarrow 300$.
3	D	Leading zeros are not significant. The first significant figure is 5. The next digit is 7, which is 5 or more, so we round up. $0.0572 \rightarrow 0.06$.
4	D	The first two significant figures are 6 and 4. The next digit is 5, which is 5 or more, so we round up the second significant figure. $6,450 \rightarrow 6,500$.
5	B	The first two significant figures are 8 and 2. The next digit is 4, which is less than 5, so we round down. $0.00824 \rightarrow 0.0082$.
6	D	The first two significant figures are 3 and 7. The next digit is 5, which is 5 or more, so we round up. $37,500 \rightarrow 38,000$.
7	C	21: the first significant figure is 2, and the next digit is 1 (less than 5), so it rounds down to 20. The others round to 10 (13, 14) or 30 (25, 26).
8	D	The first two significant figures are 9 and 6. The next digit is 5, which is 5 or more, so we round up the second significant figure. $9,650 \rightarrow 9,700$.
9	D	The first significant figure is 3. The next digit is 9, which is 5 or more, so we round up. $0.00395 \rightarrow 0.004$.
10	A	The first two significant figures are 8 and 8. The next digit is 4, which is less than 5, so we round down. $8,848 \rightarrow 8,800$.
11	C	The first two significant figures are 3 and 5. The next digit is 7, which is 5 or more, so we round up the second significant figure. $0.0357 \rightarrow 0.036$.

12	B	450: the first significant figure is 4, and the next digit is 5 (≥ 5), so it rounds up to 500. The others round to 400 (449) or 600 (550, 551, 600).
13	A	The first three significant figures are 1, 2, and 3. The next digit is 4, which is less than 5, so we round down. 123,456 $\rightarrow$ 123,000.
14	B	The first two significant figures are 4 and 7. The next digit is 3, which is less than 5, so we round down. 0.00473 $\rightarrow$ 0.0047.
15	D	The first two significant figures are 9 and 9. The next digit is 5 (≥ 5), so we round up: the tens digit goes from 9 to 10, which carries over, making 99 $\rightarrow$ 100. So 995 $\rightarrow$ 1,000.