# STAGE 9 MATHEMATICS
## TOPIC QUESTIONS
### TOPIC: Multiply and divide integers and decimals by 10 to the power of any positive or negative number.
### SET-1

1. Multiply 45.6 by $10^2$.

$10^2 = 100$, so multiply $45.6 \times 100$.
Shift the decimal point two places to the right:
$45.6 \rightarrow 4560$.

Answer: 4560.

**2. Divide 3450 by $10^3$.**

$10^3$ = 1000, so divide 3450 ÷ 1000.
Shift the decimal point three places to the left:
3450 → 3.45.

Answer: 3.45.

**Multiply 0.025 by $10^4$.**

$10^4$ = 10000, so multiply 0.025 × 10000.
Shift the decimal point four places to the right:
0.025 → 250.

Answer: 250.

3    **Divide 7500 by 10².**

$10^2$ = 100, so divide 7500 ÷ 100.
Shift the decimal point two places to the left:
7500 → 75.

Answer: 75.

4 **Multiply 6.3 by $10^{-2}$.**

$10^{-2} = 0.01$, so multiply 6.3 × 0.01.
Shift the decimal point two places to the left:
6.3 → 0.063.

Answer: 0.063.