

SMART EXAM RESOURCES

STAGE 9 MATHEMATICS

TOPIC QUESTIONS

TOPIC: Multiply and divide integers and decimals by 10 to the power of any positive or negative number.

SET-2

1 Divide 0.9 by 10^{-1} .

$10^{-1} = 0.1$, so divide $0.9 \div 0.1$.

Dividing by 0.1 moves the decimal one place to the right:

$0.9 \rightarrow 9$.

Answer: 9.

2. Multiply 120 by 10^{-3} .

$10^{-3} = 0.001$, so multiply 120×0.001 .

Shift the decimal point three places to the left:

$120 \rightarrow 0.12$.

Answer: 0.12.

3. Divide 5.6 by 10^3 .

$10^3 = 1000$, so divide $5.6 \div 1000$.

Shift the decimal point three places to the left:

$5.6 \rightarrow 0.0056$.

Answer: 0.0056.

4. Multiply 3.75 by 10^5 .

$10^5 = 100000$, so multiply 3.75×100000 .

Shift the decimal point five places to the right:

$3.75 \rightarrow 375000$.

Answer: 375000.

5. Divide 0.0042 by 10^{-2} .

$10^{-2} = 0.01$, so divide $0.0042 \div 0.01$.

Dividing by 0.01 moves the decimal two places to the right:

$0.0042 \rightarrow 0.42$.

Answer: 0.42.