

Multiplying by the Power of 10

When multiplying a **whole number** by a power of 10, count the number of zeros after the 1, and stick it to the end of the number you are multiplying.

$$\begin{aligned} 48 \times 10 &= 480 \\ 22 \times 100 &= 2,200 \\ 3 \times 1,000 &= 3,000 \end{aligned}$$

To multiply a **decimal** by a power of 10, move the decimal point one place to the right for each 0 after the 1.

$$\begin{aligned} 0.48 \times 10 &= 4.80 \\ 0.22 \times 100 &= 22 \\ 0.3 \times 1,000 &= 300 \end{aligned}$$



Multiply.

1. $0.26 \times 10 =$ _____ 2. $0.72 \times 100 =$ _____

3. $34 \times 1,000 =$ _____ 4. $4 \times 100 =$ _____

5. $0.351 \times 10 =$ _____ 6. $1.621 \times 10 =$ _____

7. $7,896 \times 100 =$ _____ 8. $45,110 \times 1,000 =$ _____

9. $3.333 \times 1,000 =$ _____ 10. $0.25 \times 10,000 =$ _____

11. $445 \times 10 =$ _____ 12. $9.66 \times 100 =$ _____