

Multiplying & Dividing by 10, 100, 1000

5th grade

Multiplying

* Transfer (add) all the zeros in the equation to the answer.

$$43 \times 10 =$$
$$43 \times 1 = 43 \underline{0} = \textcircled{430}$$

$$43 \times 100 =$$
$$43 \times 1 = 43 \underline{00} = \textcircled{43,000}$$

$$43 \times 200 =$$
$$43 \times 2 = 86 \underline{00} = \textcircled{8,600}$$

$$30 \times 800 =$$
$$3 \times 8 = 24 \underline{000} = \textcircled{24,000}$$

Dividing

* Cancel (subtract) an equal number of zeros from each number in the equation before you add them to your answer.

$$230 \div 10 = \text{the zero in 230 and the zero in 10, cancel each other out}$$

$$23 \div 1 = \textcircled{23}$$

$$23,000 \div 10 = \text{after canceling one zero from the 10 and one from the 23,000, there are still$$

$$23 \div 1 = 23 \underline{00} = \textcircled{2,300} \text{ 2 zeros left.}$$

$$1500 \div 30 =$$
$$15 \div 3 = 5 \underline{0} = \textcircled{50}$$

$$64,000 \div 800 =$$
$$64 \div 8 = 8 \underline{0} = \textcircled{80}$$