

Multiplying and dividing by 10,
Finding 10% by dividing by 10, Finding 50% by taking half

- When we multiply a number by 10, the ones become tens, the tens become hundreds, the tenths become ones, and so on. So we move all digits 1 place to the *left* (to make the number bigger).
- When we divide a number by 10, the hundreds become tens, the tens become ones, the ones become tenths, and so on. So we move all digits 1 place to the *right* (to make the number smaller).

1.

$$10 \times \$2.30 = \underline{\hspace{2cm}} \qquad \$2.30 \div 10 = \underline{\hspace{2cm}}$$

2.

$$10 \times \$50 = \underline{\hspace{2cm}} \qquad \$50 \div 10 = \underline{\hspace{2cm}}$$

3.

$$10 \times \$45 = \underline{\hspace{2cm}} \qquad \$45 \div 10 = \underline{\hspace{2cm}}$$

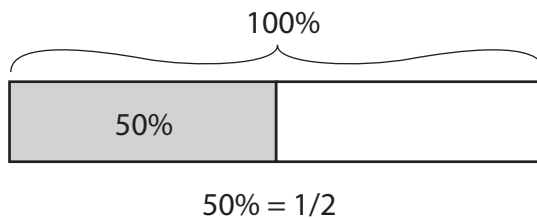
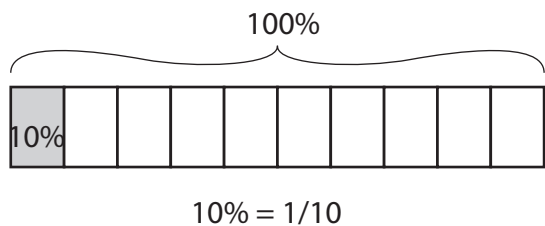
4.

$$10 \times 3.5 = \underline{\hspace{2cm}} \qquad 3.5 \div 10 = \underline{\hspace{2cm}}$$

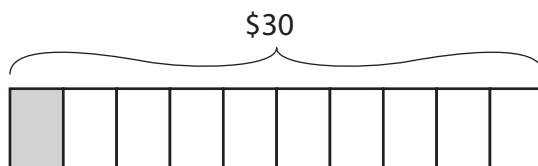
5.

$$10 \times 0.78 = \underline{\hspace{2cm}} \qquad 0.78 \div 10 = \underline{\hspace{2cm}}$$

Finding 10% and 50% of a number



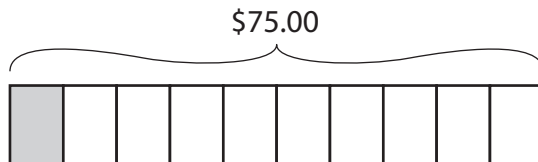
1. A pair of shoes cost \$30. The shoes are now 10% off.



How many dollars off are the shoes? Answer: _____

How much do the shoes cost now after the discount? Answer: _____

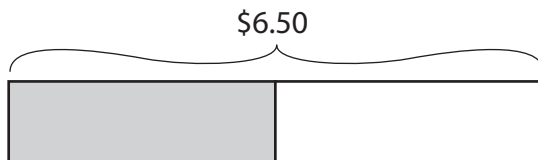
2. A coat cost \$75.00. The coat is now 10% off.



How many dollars off is the coat? Answer: _____

How much does the coat cost now after the discount? Answer: _____

3. A calendar cost \$6.50. The calendar is now 50% off.



How many dollars off is the calendar? Answer: _____

How much does the calendar cost now after the discount? Answer: _____

4. A bag of valentines candies cost \$2.70. When they go on sale for 50% off, how much will they cost? Answer: _____

5. A bag of apples cost \$3.60. The apples are now 10% off.

How many dollars off is the bag of apples? Answer: _____

How much does the bag of apples cost now after the discount? Answer: _____

6. A shirt costs \$25. The shirt is now 50% off. How much does the shirt cost now?

Answer: _____