

- 1) You receive a shipment where 13 out of 500 pieces were defective. What is the percent that were defective for this shipment?

$$\text{Percent} = \text{Part} \div \text{Whole} \times 100$$
$$13 \div 500 \times 100 = 26$$

26%

- 2) A supplier gives an 8% discount if you spend cash. I spent cash and my discount was \$48. How much did I spend to get this discount?

$$\text{Whole} = \text{Part} \div \text{Percent}$$
$$\text{Whole} = 48 \div 0.08$$

\$600

$$\text{Whole} = 600$$

- 3) I had \$153 taken out of my paycheck. My tax rate is 18%. How much was my paycheck before taxes?

$$\text{Whole} = \text{Part} \div \text{Percent}$$
$$\text{Whole} = 153 \div .18$$

\$850

$$\text{Whole} = 850$$

- 4) 5% of paint I ordered was the wrong finish. I ordered 40 gallons of paint. How many were incorrect?

$$\text{Part} = \text{Percent} \times \text{Whole}$$
$$\text{Part} = .05 \times 40$$

2 gallons

$$\text{Part} = 2$$

- 5) 16 out of 24 hours on a project were spent painting. What percentage of time was spent painting?

$$\text{Percent} = \text{Part} \div \text{Whole} \times 100$$
$$\text{Percent} = 16 \div 24 \times 100$$

66.7%