## Finding the Part

a. What is $15 \%$ of 23 ?
B. What is $25 \%$ of 86 ?
C. What is $30 \%$ of 79 ?

## Finding the Percent

a. 30 is what percent of 70 ?
B. 15 is what percent of 45 ?
C . 22 is what percent of 120 ?

## Finding the Whole

a. 30 is $60 \%$ of what number?
B. 50 is $40 \%$ of what number?
C. 75 is $20 \%$ of what number?

## Discount

a. A pair of shoes is normally $\$ 60$, but is on sale for $30 \%$ off. If I have a coupon for an additional $10 \%$ off the discounted price, what will I pay for the jacket?
b. A cookies is normally $\$ 1.50$, but is on sale for $25 \%$ off. If I have a coupon for an additional $50 \%$ off the discounted price, what will I pay for the cookie?
c. A pair of shoes is normally $\$ 120$, but is on sale for $60 \%$ off. If I have a coupon for an additional $30 \%$ off the discounted price, what will I pay for the shoes?
d. A store is having a $20 \%$ off sale. If I bought a necklace for $\$ 37.60$, what was the original price?
e. A amusement park is having a special where all their tickets are $60 \%$ off. If I paid $\$ 48$ to go, how much was full price?

## Mark Up

a. A store buys a pot for $\$ 5$. They need to make $40 \%$ profit. How much should they sell it for?
b. A store buys a towel for $\$ 3$. They want to make $50 \%$ profit. How much should they sell it for?
c. A store makes $60 \%$ profit. If they sold a pair of glasses for $\$ 19.20$, how much did they buy them for?

## Percent Change

Find the percent change of each:
a. $5 \rightarrow 7$
b. $6 \rightarrow 2$
c. $\quad 10 \rightarrow 13$
d. $\quad 38 \rightarrow 57$
e. $80 \rightarrow 25$
f. $12 \rightarrow 8$

## Interest

a. If Bob borrows $\$ 500$ and agrees to pay $3 \%$ simple interest weekly, how much interest will he pay after 3 weeks?
b. If Bob borrows $\$ 200$ and agrees to pay $0.3 \%$ interest weekly, how much interest will he pay after 3 weeks?
c. If Bob borrows $\$ 500$ and agrees to pay $0.3 \%$ interest weekly, how much interest will he pay after 12 weeks?
a. If 5 lbs of dog food costs $\$ 12.50$, how much will 7 lbs of dog food cost?
b. A shade of purple is made from mixing 1 part red to 2 parts blue. If I use 3 gallons of blue, how much red will I need?
c. If a car gets 22 miles per gallon, how much gas is used to go 100 miles?
d. $\frac{5}{x}=\frac{10.5}{6}$
e. $\frac{3}{8.2}=\frac{x}{5}$

## Review- Graphs, Equations, Order of Operations

a. Graph $\mathrm{y}=2 \mathrm{x}, \quad$ graph $\mathrm{y}=3 \mathrm{x}+2 \quad$ graph $\mathrm{y}=3 \mathrm{x}-1$
b. Solve for $x: 3 x+2 x-6=-2 x+6$
c. Solve for $\mathrm{x}: ~ 2-(3 x+2)=x+5$
d. Solve for $x: 2-2(3 x-2)=x+2$
e. Solve for $p: m+2 p=6$
f. Solve for $U: 2 x+3 U=6$
g. Solve for $T: 2 T+3 T-(x+2)=T+3$
h. Simplify $6-3 \div 6 \cdot 2$
i. Simplify $\frac{12 \div 2(3+2)}{6-7(0-1) \div 2}$

