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 → 7   b. 6 → 2   c. 10 → 13   d. 38 → 57   e. 80 → 25   f. 12 → 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?

<u>Proprtions</u>

    a.   If 5lbs of dog food costs $12.50, how much will 7lbs 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. $\dfrac{5}{x} = \dfrac{10.5}{6}$

    e. $\dfrac{3}{8.2} = \dfrac{x}{5}$

<u>Review- Graphs, Equations, Order of Operations</u>

    a.   Graph y = 2x,   graph y = 3x + 2   graph y = 3x − 1

    b.   Solve for x: 3x + 2x − 6 = -2x + 6

    c.   Solve for x: 2 − (3x + 2) = x + 5

    d.   Solve for x: 2 − 2(3x − 2) = x + 2

e.   Solve for p: m + 2p = 6

f.   Solve for U: 2x + 3U = 6

g.   Solve for T: 2T + 3T − (x + 2) = T + 3

h.   Simplify 6 − 3 ÷ 6 · 2

i.   Simplify $\frac{12 \div 2(3+2)}{6-7(0-1)\div 2}$