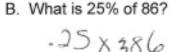
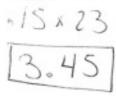
Unit 6 Study Guide

Finding the Part

a. What is 15% of 23?



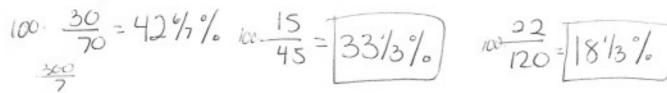
C. What is 30% of 79?

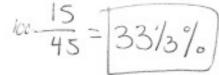


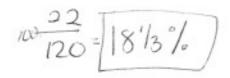
- .3 × 79

Finding the Percent

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

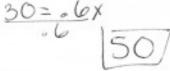


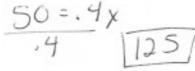


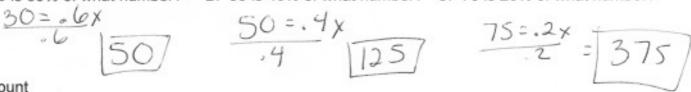


Finding the Whole

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

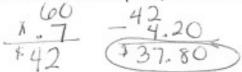






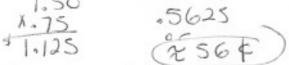
Discount

 A 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?



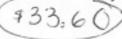
 A cookies is normally \$1.50, but is on sale for 25% off. If I have a coupon for an additional 50% off the discounted price, what will I pay for the cookie?





 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?

120 x.48 (\$33.60)

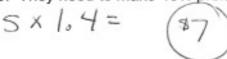


A store is having a 20% off sale. If I bought a necklace for \$37.60, what was the original price? 37.60= 08 X

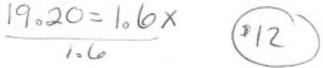
A amusement park is having a special where all their tickets are 60% off. If I paid \$48 to go, how much was full price? 45= .4x (\$120

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?



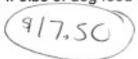
Percent Change

Find the percent change of each:

- a. 5 o 7 b. 6 o 2 c. 10 o 13 d. 38 o 57 e. 80 o 25 f. 12 o 8 $\frac{2}{5} (90\%) = \frac{4}{6} = \frac{664/3\%}{6} = \frac{30\%}{36} = \frac{50\%}{36} = \frac{55}{60} \frac{6834\%}{600} = \frac{4}{33} = \frac{33\%}{30\%}$ Increase Increase decrease
 - a. If Bob borrows \$500 and agrees to pay 3% simple interest weekly, how much interest will he pay after 3 weeks? 500 * 03 * 3 = (945) In Interest
 - 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?

Proprtions

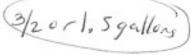
If 5lbs of dog food costs \$12.50, how much will 7lbs of dog food cost?



$$\frac{516}{12.50} = \frac{716}{x}$$
 $5x = 87.50$

$$5x = 87.50$$

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?

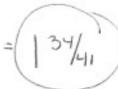


If a car gets 22 miles per gallon, how much gas is used to go 100 miles? C.

e.
$$\frac{3}{8.2} = \frac{x}{9}$$

d. $\frac{5}{y} = \frac{10.5}{6}$

e.
$$\frac{\frac{3}{82} = \frac{x}{8}}{8.2} = \frac{15 = 8.2x}{8.2} = \frac{150}{82} = \frac{75}{41} = \frac{34}{41}$$



Review- Graphs, Equations, Order of Operations

Graph y = 2x, a.

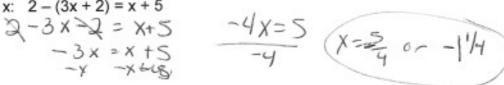
graph
$$y = 3x + 2$$
 graph $y = 3x - 1$

graph
$$y = 3x - 1$$

see attached

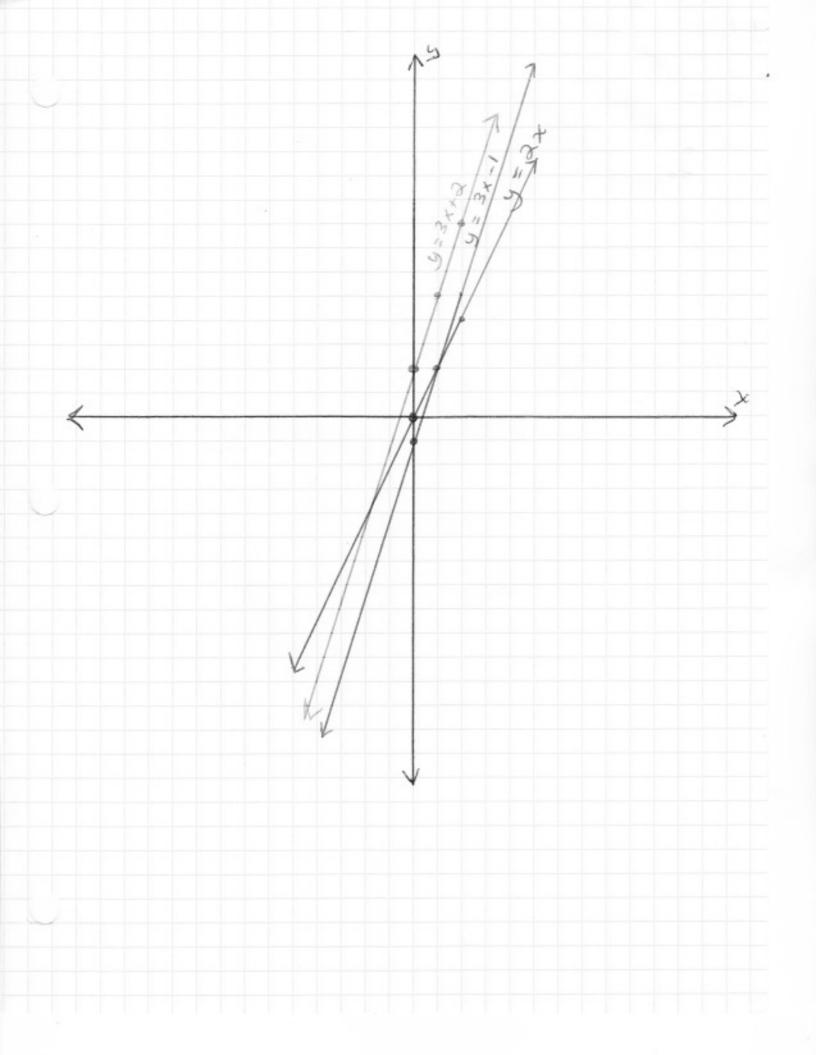
Solve for x: 3x + 2x - 6 = -2x + 6b.

Solve for x: 2 - (3x + 2) = x + 5C.



Solve for x: 2-2(3x-2) = x + 2

2-6x+4=x+2 6=7x+2 -6x+6=x+2 4=7x 4=7x 4=7x



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

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

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

$$3 \cdot 5T - x - 2 = T + 3$$

$$-T - T - T$$

$$+T - x - 2 = 3$$

$$+x + 2 + x + 2$$

$$-3 + 6 \cdot 2$$

$$+ 7 - 1 + 3$$

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h. Simplify
$$6 - 3 + 6 \cdot 2$$

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

i. Simplify
$$\frac{12+2(3+2)}{6-7(0-1)+2}$$
 $\frac{(0(3+2))}{(0-7(-1)+2)} = \frac{(0.5)}{(0+7)+2} = \frac{35}{(0+7)+2} = \frac{35}{9.5} \cdot \frac{2}{2} = \frac{70}{19}$