

NAME *HW for Tuesday Night 2-24-15

Percent Word Problems

Be careful!
You have to determine the "is" and the "of".

- Step 1: Read each word problem carefully to determine which number is missing - the part or the whole.
 Step 2: Translate the word problem into a simple percent question using the words *is* and *of*.
 Step 3: Set up and solve a proportion.
 (Show your work on notebook paper. Include units with your answers!)

Use the $\frac{\text{is}}{\text{of}}$ formula!

- Eileen and Mary scored 48% of their team's points. If their team had a total of 50 points, how many points did they score? $\left(\frac{\text{is}}{\text{of}}\right) \frac{x}{50 \text{ pts}} = \frac{48}{100}$
- Action movies make up 85% of Devon's movie collection. If he has 17 action movies, how many movies are in Devon's collection?
- Kai calculates that he spends 15% of a school day in science class. If he spends 500 minutes in school, how many minutes does he spend in science class?
- A punch recipe is 20% pineapple juice. If you want 15 total cups of punch, how many cups of pineapple juice do you need to add?
- A store is having a sale where winter clothes are 60% of the original price. A sweater is on sale for \$30. What was the original price of the sweater?
- Juan has 2 red pencils in his backpack. If this is 25% of the total number of pencils, how many pencils are in his backpack?
- A local bakery sold 60 loaves of bread in one day. If 65% of these were sold in the afternoon, how many loaves were sold in the afternoon?
- On Mrs. Comer's last test, 95 students made A's or B's. This was 76% of her students. How many students does Mrs. Comer teach?
- There were 459 people at this year's homecoming dance. This was 68% of all of the students at Valley Creek High School. How many total students are at Valley Creek High School?
- There are 50 pieces of candy in a bag. If 42% of the candies are blue, how many candies are blue?

• cross multiply the 2 numbers that are already there
 $48 \cdot 50 = 2400$
 $\frac{2400}{100} = 24$
 divide by the only other # left in the problem