

Homework Check

- 1. t = 11
- 2. y = 2
- 3. 45 ft
- 4. 10.5 inches
- 5. 360 bottles of diet coke
- 6. p = 5
- 7. a = 9
- 8. x = 4.5 m
- 9. A. 3.75 miles B. 4.5 miles
- 10. 3.5 cups
- 11. A. Drawing B...17.5 m

Test Averages

2nd - 67

3rd - 61

4th - 52

5th - 63

7th - 44

Please sign up for tutorials if you haven't already

Algebra I - Unit 1: Topic 3 - Solving Proportions

Practice - Solving Proportions

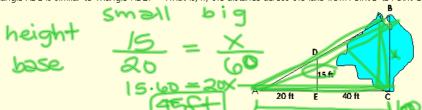
pp 114-120

Solve each proportion.

1.
$$\frac{t-5}{4} = \frac{3}{2}$$

2.
$$\frac{1}{v-3} = \frac{3}{v-5}$$

3 Triangle ABC is similar to Triangle ADE. What is, x, the distance across the lake from Point B to Point C?



4. A museum has scale models representing different time periods in history. A scale in which one inch in the model represents two feet is used to construct the models. The museum's sculptor wants to build a model of an 21-foot-tall tree for one of the exhibits. How tall should she make the model of the tree?



5. STOP MART received a delivery of 1080 bottles of Coke and Diet Coke. If the ratio of Coke delivered to Diet Coke delivered was 6:3, how many bottles of Diet Coke were delivered?

Diet
$$\frac{X}{1080} = \frac{3}{9}$$

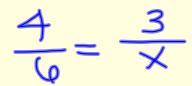
Total 1080 9

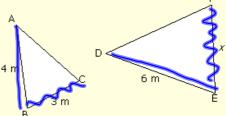
 $\frac{6p-3}{7} = \frac{6p+7}{8}$
 $\frac{6p-3}{7} = \frac{6p+7}{8}$
 $\frac{7}{7} = \frac{8}{8} = \frac{3}{4}$
 $\frac{7}{7} = \frac{6p+7}{8} = \frac{3}{8} = \frac{3}{4}$
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 $\frac{7}{7} = \frac{6p-3}{8} = \frac{6p-3}{8} = \frac{3}{4}$
 $\frac{7}{7} = \frac{6p-3}{8} = \frac{3}{4}$

X

Algebra I - Unit 1: Topic 3 - Solving Proportions

8. Triangle ABC is similar to Triangle DEF. What is the value of X?





- 9. Marlene can walk $2\frac{1}{2}$ miles in 40 minutes. Determine how far she can walk in one hour.
 - B. Marlene increases her rate to 3 miles in 40 minutes. At this current rate, how far will she walk in one hour?
- 10. Vince is making cookies for his Single Survival class. The recipe he is using requires 1 cup of milk for 8 servings. If he wants to make enough cookies for 28 servings, how much milk will Vince need?
- Josh is 1.8 meters tall. On a surply day, Lenny measured Josh's shadow (3.5 meters) and the shadow of their house at the same time.
 - A. Draw a picture to represent the situation.



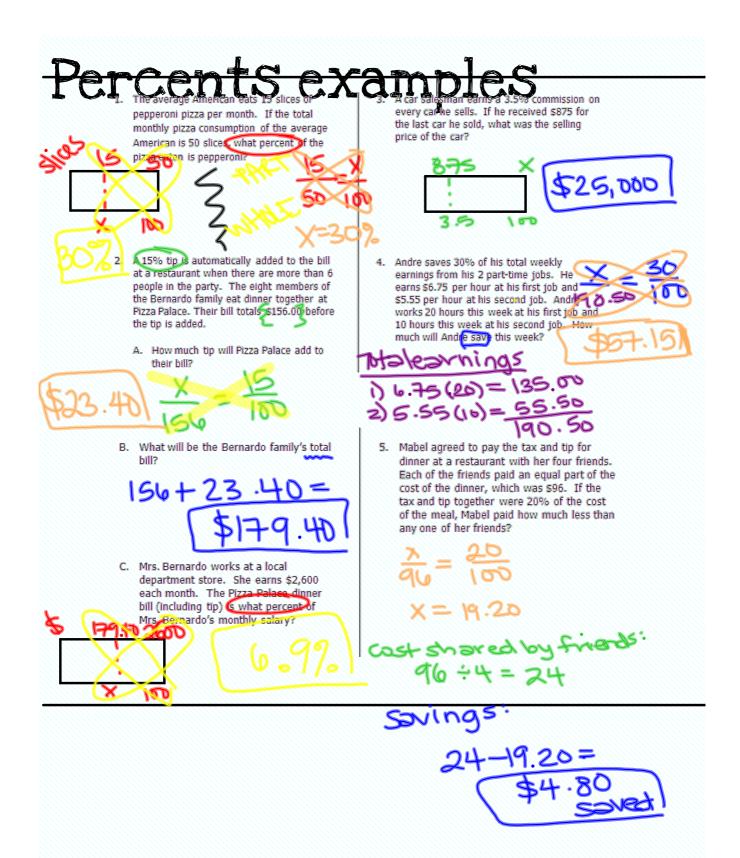
- 5(3.5) = 17.5
- C. What is the height of the house?

$$\frac{X}{1.8} = \frac{17.5}{3.5}$$

$$X = 9m$$

Solving Per	cent	Sp. 1917
Method 2: Percent Bars things	PART	WHOLE
percents	7. on	oss-mutiply
Method 2: Proportion Met		570
MHDI		100

Summary:



	actice - Percents ^{me:}	Date:	Per:	pp 127-137 ———
1.	On Wednesday, Tom's Nursery rec What percent of his order arrived o	eived a shipment of 60 flowe on Wednesday?	ing crabapple trees. Tor	m had ordered 80 trees.
2.	Karolan received a commission of 5 was the selling price of the house?		f the amount of her comr	mission was \$4780, what
3.	Kristi invested \$5000 in a savings a a. How much interest did she		of 3.5% for 5 years.	
	b. What was her total at the e	end of 5 years?		
4.	How long would Edward need to in an investment account at a rate of		to earn \$2160 in interest	after depositing \$6000 in
5.	A police department reported that they receive 120 alarm calls in one	approximately 95% of the ala day, about how many of the	irm calls they get each di m would not be false alai	ay are false alarms. If rms?

Algebra I - Unit 1: Topic 3

The table below lists the number of dogs of each of the different breeds a store sold in one year.

Dog Sales				
Breed	Number Sold	% Sold		
Cocker Spaniel	48			
German Shepherd	21			
Miniature Schnauzer	45			
Beagle	36			

- A. Fill in the table to show the percent of each breed of dog the pet store sold in one year.
- B. Using the percentage rates you found in the table, how many beagles could the store expect to sell if they sell 200 dogs next year?
- 7. A car dealership is selling a used vehicle for \$8,500. What would be the price of the vehicle with a sales tax of 7.5%?
- 8. There are approximately 1,500,000 enlisted women and men in the United States military. Of this number, approximately 420,000 are over the age of 35. What is the approximate percent of enlisted personnel over the age of 35?
- 9. The East High School gym needs to be painted. The painters estimated that it would take about 20 hours for them to paint the entire gym. If they have already worked for five hours, what percent of the entire job have they finished?
- 10. Abbie's goal is to collect 200 different kinds of butterflies for her collection. So far, she has collected 67% of her goal. What is the number of butterflies she has collected?
- 11. Mr. Garcia's restaurant bill with tax was \$35.00. He wants to leave the waiter a 15% tip. How much money will Mr. Garcia leave including the tip?