

Algebra I - Unit 1: Topic 3 - Solving Proportions

Practice - Solving Proportions		pp 114-120
Name	Date	Per

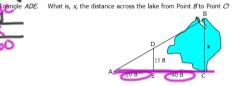
Solve each proportion.

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

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

15 no 400 gags

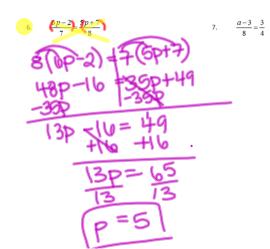
height 15 X base 20 60



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?

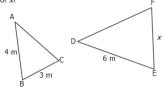


 STOP MART received a delivery of 1080 bottles of Coke and Diet Coke. If the ratio of Coke delivered to Diet Coke delivered was 6:3, how many bottles of Diet Coke were delivered?

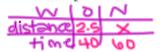


Algebra I - Unit 1: Topic 3 - Solving Proportions

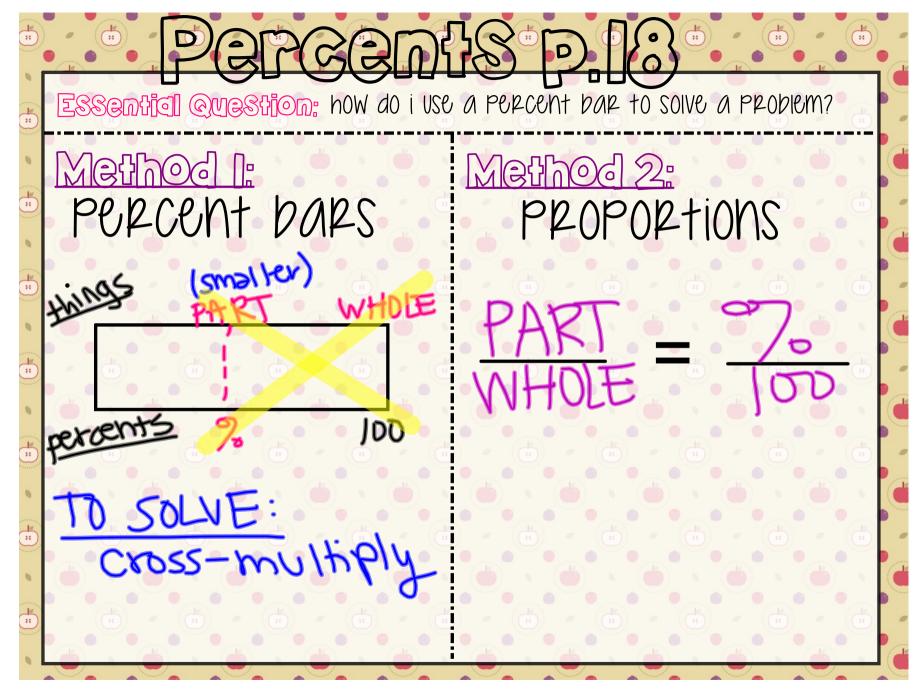
8. Triangle ABC is similar to Triangle DEF. What is the value of x?

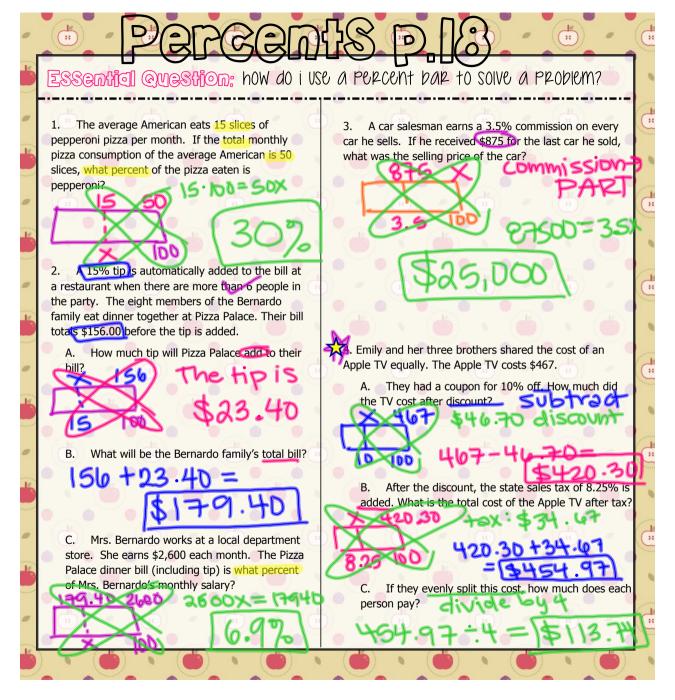


9. Marlene can walk $2\frac{1}{2}$ miles in 40 minutes. Determine how far she can walk in one hour.



- 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?
- 11. Josh is 1.8 meters tall. On a sunny 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.
 - If the length of the house's shadow is 5 times the length of Josh's shadow, how long is the house's shadow?
 - C. What is the height of the house?

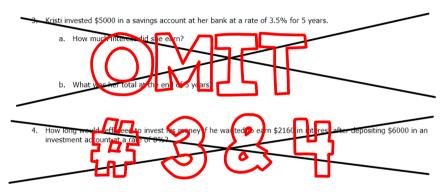




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_	Algebra I - Unit 1: Topic 3- Percents Practice - Percents pp 127-137					
Na	ame:	Date:	Per:	_		
1.	On Wednesday, Tom's Nursery received	a shipment of 60 fl	owering crabapple trees. Tom	n had ordered 80 trees.		

2. Karen received a commission of 5% on the sale of a house. If the amount of her commission was \$4780, what was the selling price of the house?



- A police department reported that approximately 95% of the alarm calls they get each day are false alarms. If they receive 120 alarm calls in one day, about how many of them would not be false alarms?
- 6. 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 48 German Shepherd 21 45 Miniature Schnauzer 45 45 Beagle 36 36

What percent of his order arrived on Wednesday?

- 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?

Algebra I- Unit 1: Topic 3- Percents
7. The graph below shows DVD rentals from a Redbox kiosk during one week.



What percentage of rentals were not musicals or comedies?

If 1000 DVDs are rented next week, how many would you predict to be dramas?

8. A car dealership is selling a used vehicle for \$8,500. What would be the price of the vehicle with a sales tax of

9. 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?

10. 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?

11. Shirley'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?

12. 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?