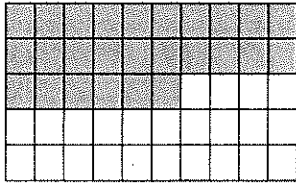


Lesson 16C ~ Solving Percents Using Proportions

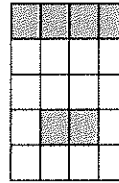
Name _____ Period _____ Date _____

Identify the percent of unit squares that are shaded. If necessary, use a proportion to find the percent.

1.



2.



Use a proportion to solve the problems on the left. Solve the equations on the right. Match the solutions to the equations with the solutions to the percent problems.

_____ 3. What is 10% of 1?

A. $3x + x - 10 = 5x - 40$

_____ 4. Five is 20% of what number?

B. $10(x + 3) = 31$

_____ 5. Eighteen is 150% of what number?

C. $30 - 3x = \frac{1}{3}x$

_____ 6. What is 15% of 60?

D. $-2(x + 7) = -3x - 2$

7. Peggy went to dinner with friends. The bill was \$82.50. Peggy left a 20% tip. How much money did Peggy leave for the tip?

8. Carl bought a jacket. It was originally \$65. He bought the jacket for 30% off the original price.

a. What was the discount on the price of the jacket?

b. What did Carl actually pay for the jacket?

9. At the end of the day, Mandy sold the rest of her hot dogs at her hot dog stand for half price. She sold 24 hot dogs at half price which meant she sold all of her hot dogs that day. If she sold 30% of her hot dogs at half price, how many hot dogs did she sell at full price that day?

10. Kay planted flower seeds in her garden. The package said about 85% of the seeds would grow into flowers. Kay had 119 flowers that bloomed. About how many seeds did not bloom?