

Unit 3 STUDY GUIDE

1.) Hailey has dollhouse that is built on a 1:12 scale. That means that one inch in her dollhouse represents 12 inches in a real house. Hailey's mom wants to make a bed for the dollhouse. If a real bed is 6 feet long, 4.5 feet wide and 2 feet tall, what should the dimensions of the dollhouse bed be?

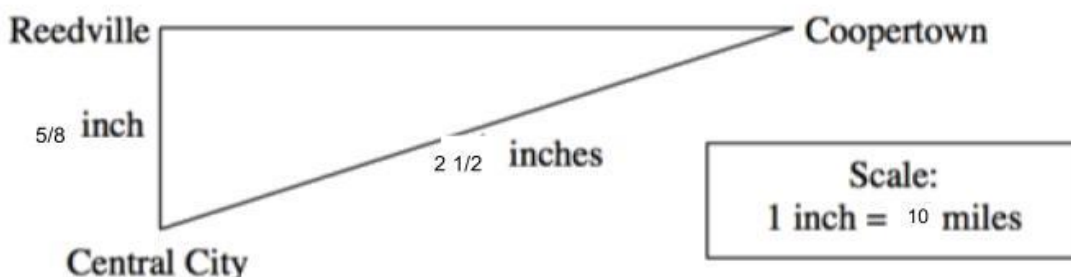
2.) Jack's car used 14 gallons of gasoline to go 280 miles. At that rate, how many gallons would be used to go 500 miles? Explain how you know.

3.) As an archer, Tess has a shooting percentage of 75%. That means she hits the bulls eye 75% of the shots she attempts. If she attempts 400 shots this season, on about how many shots will she hit the bulls eye?

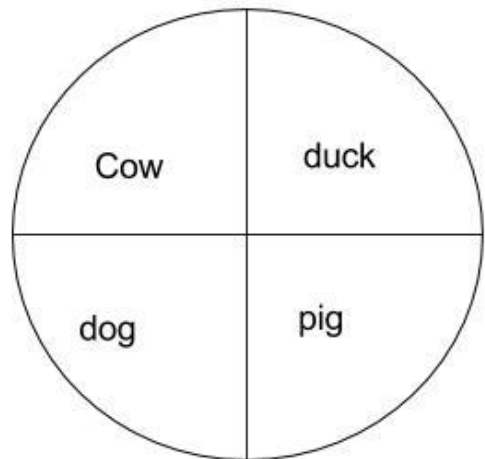
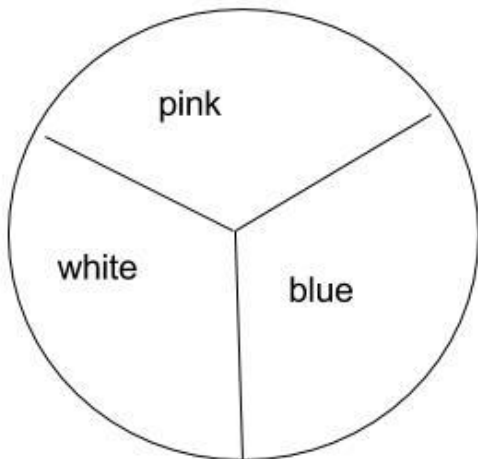
4.) Mr. Webb gave his waiter a \$6 tip on a \$40 bill. What percent tip did he give the waiter?

5.) At Spiney Torture Middle School, 40% of the classrooms are for sixth graders. If there are 10 sixth grade classes, how many classrooms are there total?

6.) Use the map shown to find the number of miles from Coopertown to Reedville by going through Central City.



Use the spinners below to answer the questions 7 – 8.



7.) What is the probability of spinning a blue cow?

8.) What is the probability of spinning a blue cow or a pink duck?

Simplify each statement fully.

9.) $50 - (2 + 9) \div 2 - 62 \div 2$

10.) $\underline{3 \cdot 2 - 5 \cdot 4}$

$-6 \div (-3) \cdot 2$

11.) $6(4) - 5 + 9(6) \div 2(34 + 20)$

12.) The school store sells eight pencils for \$2.00. Mr. Talcum will need 20 pencils for his new class. The school store charged Mr. Talcum \$8. Is this correct? Justify your answer.

13. Write three equations that are proportional.

14. Create two tables that are proportional.

15. Draw two graphs that are proportional.

