

Proportion Problems

1. The scale on a map is 2 centimeters represents 25 miles. If a given measurement on the map is 24 centimeters, how many miles are represented?
2. Lauren and Kenneth purchased pencils. Lauren bought 10 pencils for \$3.50, and Kenneth purchased 5 pencils for \$1.80. Who got the better deal?
3. Kimberly is making paint to use in art class. Yesterday, she mixed white and red paint together. Today, she used more red paint and the same amount of white paint to make her mixture. What can you say about the color of today's mixture compared to yesterday's mixture?
4. Heidi and Meredith decide to invest money in a local ice cream shop. Heidi invests \$1,500, which is 60% of their total investment. How much do Heidi and Meredith invest together?
5. Angel is planning a party for 60 people. She decides to make a fruit punch that includes using $1\frac{1}{2}$ pints of orange juice for every 8 servings. If she wants to prepare 1 serving for each person, how much orange juice will she need?
6. Gloria drives at an average rate of 25 miles per hour for 3 hours to get to her friend's house. How long will it take her if she is able to average 50 miles per hour?
7. Judy's cell phone service charges her \$14.50 per month for phone service, plus \$0.15 for each text she sends or receives. Last month, she sent or received 27 texts and her bill was \$18.55. How much will she pay if she sends or receives 54 texts this month?
8. Randy and Jorge both go for a run. When they run, both run at the same rate. Today, they started at different times. Randy had run 3 miles when Jorge had run 2 miles. How many miles had Jorge run when Randy had run 6 miles?