



Worksheet Directions:

1. Solve the following word problems. Be sure to show your work!
2. Submit the completed worksheet to your Flex course.

1. Sarah wants to make a purple paint mix. To do this she needs to mix $\frac{1}{2}$ cup blue paint with $\frac{1}{3}$ cup red paint. If she wants to mix blue and red paint in the same ratio to make 20 cups of purple paint, how many cups of blue paint and how many cups of red paint will Sarah need?

2. Elizabeth can buy ribbon at a cost of \$1 per 18 inches. At this rate, how many yards of ribbon can she buy for \$20?

3. Zachary measured that his car traveled 15 miles in 20 minutes. What was the average speed of Zachary's car?



4. A $\frac{2}{6}$ pound bag of candy cost \$2.50. How much will it cost for a pound?

5. In 30 seconds, a sports car can travel 2 km. How fast is it going an hour?

6. It is a Saturday morning and Noah has discovered he has a leak coming from the water heater in his attic. Since plumbers charge extra to come out on weekends, Noah is planning to use buckets to catch the dripping water. He places a bucket under the drip and steps outside to walk the dog. In half an hour the bucket is $\frac{1}{5}$ of the way full.

a. What is the rate at which the water is leaking?



b. What is the longest that Noah can be away from the house before the bucket will overflow?