

NAME _____

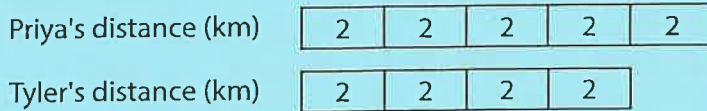
DATE _____

PERIOD _____

Unit 3, Lesson 12

Practice Problems

1. Here is a tape diagram that shows how far two students walked.

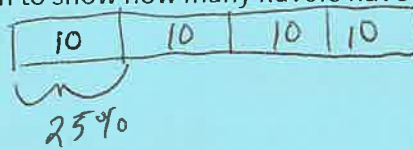


- a. What percentage of Priya's distance did Tyler walk?
- b. What percentage of Tyler's distance did Priya walk?

$\frac{4}{5} = 80\%$

$\frac{10}{8} = 125\%$

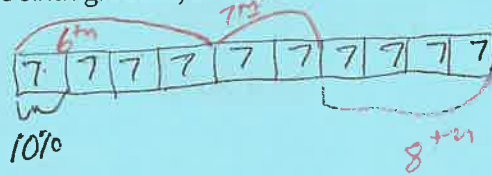
2. A bakery makes 40 different flavors of muffins. 25% of the flavors have chocolate as one of the ingredients. Draw a tape diagram to show how many flavors have chocolate and how many don't.



10 have chocolate
30 do not

3. There are 70 students in the school band. 40% of them are sixth graders, 20% are seventh graders, and the rest are eighth graders.

- a. How many band members are sixth graders?
- b. How many band members are seventh graders?
- c. What percentage of the band members are eighth graders? Explain your reasoning.



There are 40% left over
 $100\% - 40\% - 20\% = 40\%$
 6^{th} 7^{th} 8^{th} or 28 students

4. Jada has a monthly budget for her cell phone bill. Last month she spent 120% of her budget, and the bill was \$60. What is Jada's monthly budget? Explain or show your reasoning.



100% is \$50

5. Which is a better deal, 5 tickets for \$12.50 or 8 tickets for \$20.16? Explain your reasoning.

$\frac{\$12.50}{5} = \2.50 per tic

$\frac{\$20.16}{8} = \2.52 per ticket

better deal



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6. An athlete runs 8 miles in 50 minutes on a treadmill. At this rate:

- a. How long will it take the athlete to run 9 miles? **56.25 min**
- b. How far can the athlete run in 1 hour? **9.6 miles**

miles	min
8	50
1	6.25
9	56.25
1.6	10
9.6	60 min = 1 hr

Handwritten annotations:

- From 8 miles to 1 mile: $\div 8$
- From 1 mile to 9 miles: $\times 9$
- From 50 min to 6.25 min: $\div 8$
- From 6.25 min to 56.25 min: $\times 9$
- From 50 min to 10 min: $\div 5$
- From 10 min to 60 min: $\times 6$