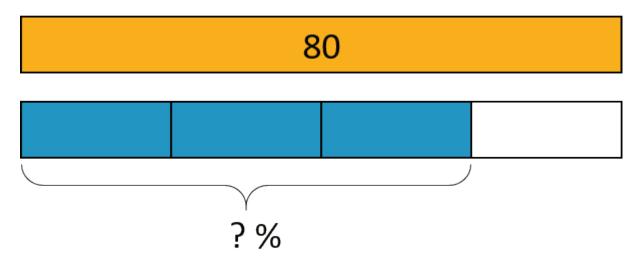
Unit 3 Lesson 12: Percentages and Tape Diagrams

1 Notice and Wonder: Tape Diagrams (Warm up)

Student Task Statement

What do you notice? What do you wonder?

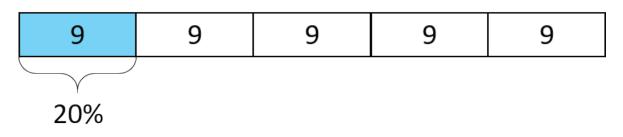


2 Revisiting Jada's Puppy

Student Task Statement

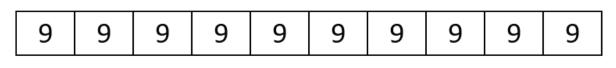
Jada has a new puppy that weighs 9 pounds. It is now at about 20% of its adult weight.

1. Here is a diagram that Jada drew about the weight of her puppy.



- a. The adult weight of the puppy will be 45 pounds. How can you see that in the diagram?
- b. What fraction of its adult weight is the puppy now? How can you see that in the diagram?

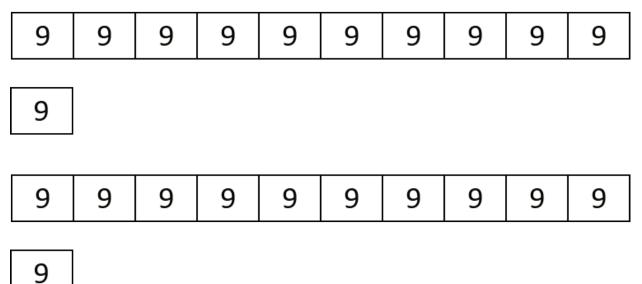
2. Jada's friend has a dog that weighs 90 pounds. Here is a diagram Jada drew that represents the weight of her friend's dog and the weight of her puppy.



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- a. How many times greater is the dog's weight than the puppy's?
- b. Compare the weight of the puppy and the dog using fractions.
- c. Compare the weight of the puppy and the dog using percentages.

Activity Synthesis



3 5 Dollars

Student Task Statement

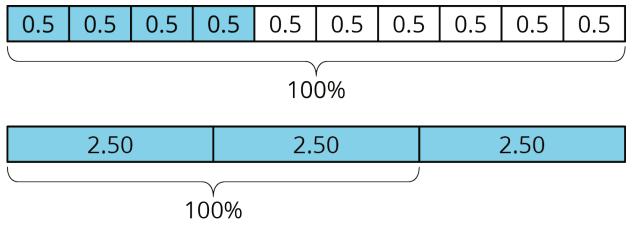
Noah has \$5.

- 1. a. Elena has 40% as much as Noah. How much does Elena have?
 - b. Compare Elena's and Noah's money using fractions. Draw a diagram to illustrate.

2. a. Diego has 150% as much as Noah. How much does Diego have?

b. Compare Diego's and Noah's money using fractions. Draw a diagram to illustrate.

Activity Synthesis



4 Staying Hydrated (Optional)

Student Task Statement

During the first part of a hike, Andre drank 1.5 liters of the water he brought.

- 1. If this is 50% of the water he brought, how much water did he bring?
- 2. If he drank 80% of his water on his entire hike, how much did he drink?