

Unit 3 Lesson 11: Percentages and Double Number Lines

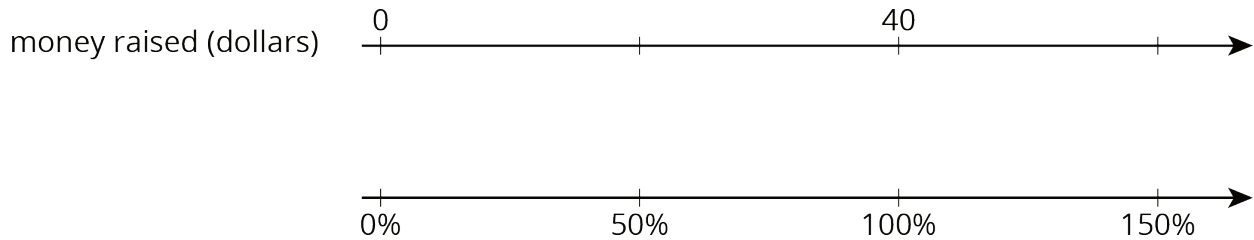
1 Fundraising Goal (Warm up)

Student Task Statement

Each of three friends—Lin, Jada, and Andre—had the goal of raising \$40. How much money did each person raise? Be prepared to explain your reasoning.

1. Lin raised 100% of her goal.
2. Jada raised 50% of her goal.
3. Andre raised 150% of his goal.

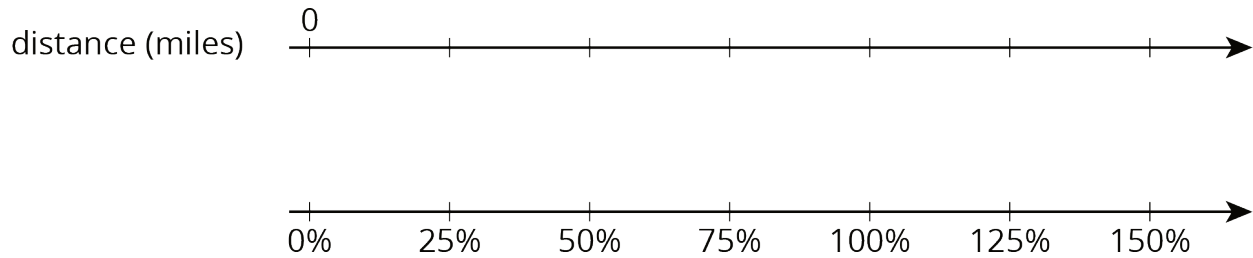
Activity Synthesis



2 Three-Day Biking Trip

Student Task Statement

Elena biked 8 miles on Saturday. Use the double number line to answer the questions. Be prepared to explain your reasoning.

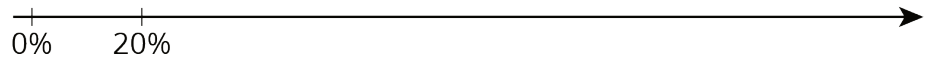
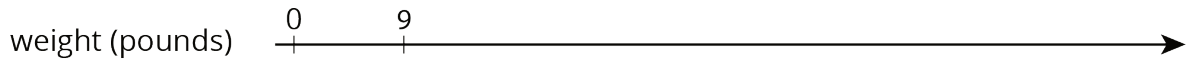


1. What is 100% of her Saturday distance?
2. On Sunday, she biked 75% of her Saturday distance. How far was that?
3. On Monday, she biked 125% of her Saturday distance. How far was that?

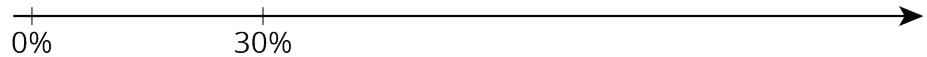
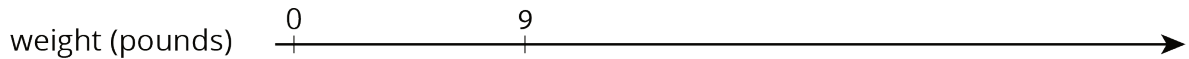
3 Puppies Grow Up

Student Task Statement

1. Jada has a new puppy that weighs 9 pounds. The vet says that the puppy is now at about 20% of its adult weight. What will be the adult weight of the puppy?

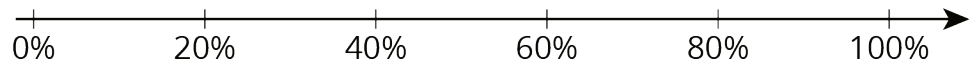
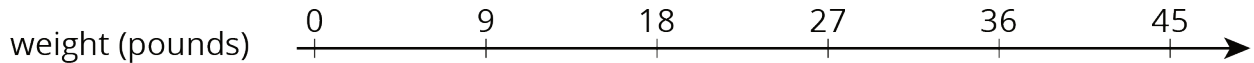


2. Andre also has a puppy that weighs 9 pounds. The vet says that this puppy is now at about 30% of its adult weight. What will be the adult weight of Andre's puppy?





3. What is the same about Jada and Andre's puppies? What is different?

Activity Synthesis



weight (pounds)	percentage
9	20
45	100

$\cdot 5$   $\cdot 5$

weight (pounds)	percentage
9	30
3	10
30	100

Annotations: On the left side, a green arrow points from the 9 to the 30, labeled $\cdot \frac{1}{3}$, and another green arrow points from the 3 to the 30, labeled $\cdot 10$. On the right side, a green arrow points from the 30 to the 10, labeled $\cdot \frac{1}{3}$, and another green arrow points from the 10 to the 100, labeled $\cdot 10$.

Images for Activity Synthesis

