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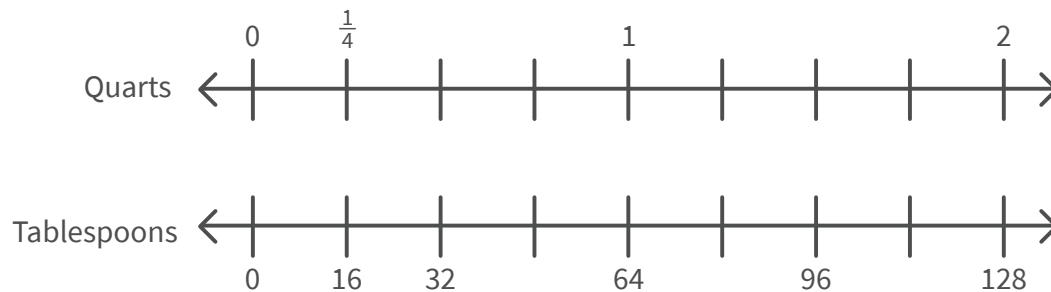
GRADE 6 / MISSION 3

Mid-Mission Assessment

1. Malakai is attending lessons to learn how to play an instrument. She can attend 4 hours of lessons for a total of \$100. Assuming the price per hour is constant, how much would it cost for 9 hours of lessons? Show your work.

Hours	Cost

2. 1 quart is equivalent to 64 tablespoons, as shown on the double number line diagram below.



a. How many quarts are equivalent to 96 tablespoons?

b. How many tablespoons are equivalent to $1\frac{3}{4}$ quarts?

3. Ophelia is making homemade spaghetti sauce by combining 48 ounces of tomato paste with 6 cups of water.
- How many ounces of tomato paste are needed for every cup of water? Show your work.
 - How many cups of water are needed for every ounce of tomato paste? Show your work.
 - Ophelia needs to make a small batch of sauce using only 20 ounces of tomato paste. How many cups of water will she need? Show your work and/or explain your reasoning.

4. Mary Lindey wants to purchase pumpkins. She finds different markets advertising pumpkins for sale. What market has the lowest price per pumpkin? Show your work and/or explain your reasoning.

East Market

Sale!



3 for \$10.50

Brister's Market


Great Deal!



\$3.75 per pumpkin

Market Fresh

Special!



2 for \$7.20

5. Elite runners can run 200 meters in 20 seconds. Complete the table to represent a runner running at a constant rate. Show your work and/or explain your reasoning.

Time (seconds)	Distance (meters)	Speed (meters per second)
20	200	
40		
	1,600	

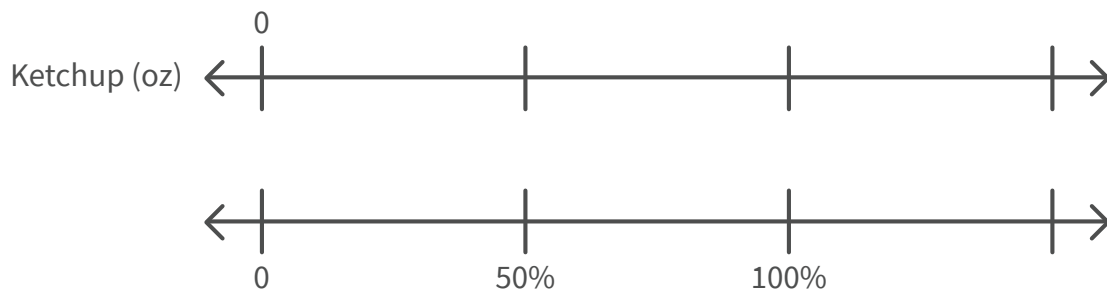
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GRADE 6 / MISSION 3

End-of-Mission Assessment

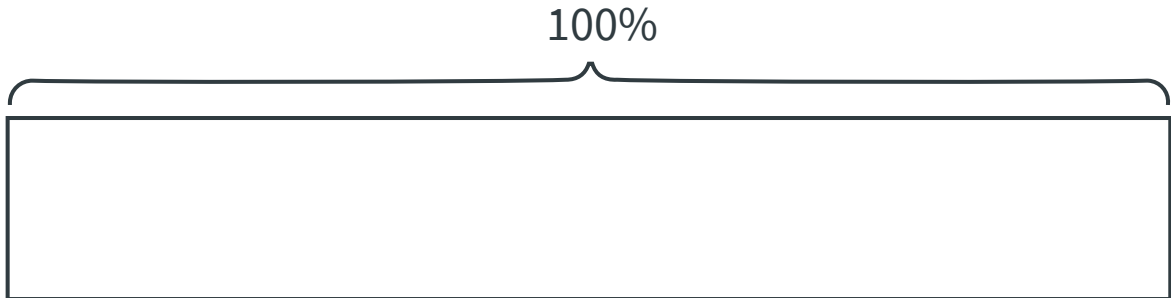
1. A full bottle of ketchup contains 20 ounces of ketchup. Use the double number line diagram to show your work and answer the following questions.



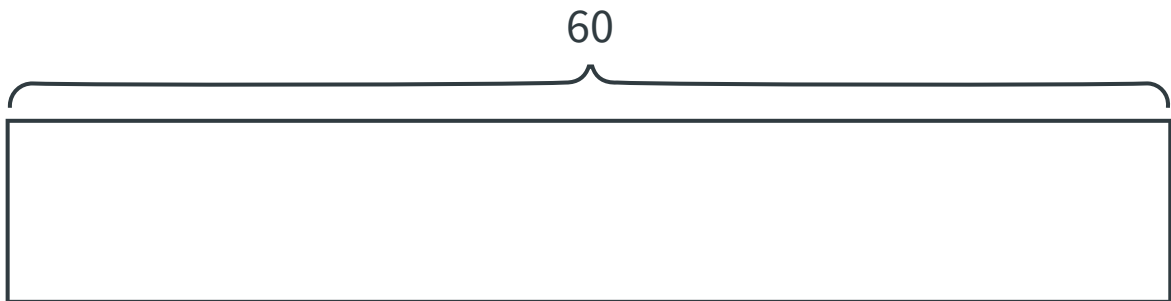
- a. After one week of meals, the bottle of ketchup contains 25% of its original amount. How many ounces are in the bottle after one week?
- b. The grocery store now offers a bottle of ketchup that contains 150% of the original amount. How many ounces of ketchup are in the new bottle?

2. Sami is participating in a fitness assessment where she must complete a certain number of sit-ups and pull-ups.

- a. She has completed 50 sit-ups, which is 25% of her goal for sit-ups. How many total sit-ups does Sami plan to do? Use the tape diagram to solve.



- b. Sami plans on doing a total of 60 pull-ups, but she only completes 40% of her goal. How many pull-ups has Sami completed? Use the tape diagram to solve.



3. What is 75% of 162? Show your work and/or explain your reasoning.

4. 16 is 20% of what number? Show your work and/or explain your reasoning.

5. Cam, Yusef, and Spencer have resolved to drink more water each day. The recommended amount of water per day is 64 ounces.
- Cam has 10% of the recommended amount of water left to drink before bed. How many ounces of water does she need to drink to reach her goal? Show your work and/or explain your reasoning.
 - At breakfast, Yusef drinks 16 ounces of water. What percentage of the daily amount of water does Yusef drink at breakfast? Show your work and/or explain your reasoning.
 - Spencer decides to drink more than the recommended amount. By dinner time, he has already drunk 64 ounces of water, which is 80% of his goal for the day. How many total ounces of water does Spencer plan to drink? Show your work and/or explain your reasoning.