## Unit 3, Lesson 11: Percentages and Double Number Lines

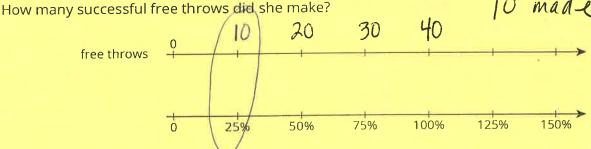
1. Solve each problem. If you get stuck, consider using the double number lines.

NAME

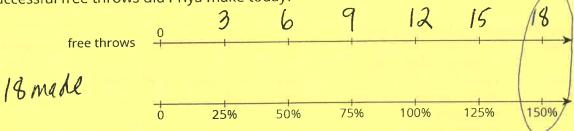
a. During a basketball practice, Mai attempted 40 free throws and was successful on 25% of them.

How many successful free throws did she make?

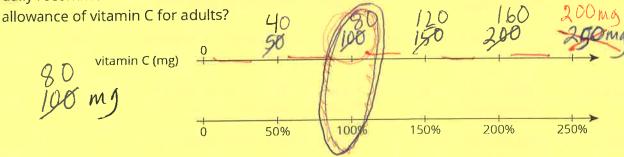
10 made has ket ball practice, Mai attempted 40 free throws and was successful on 25% of them.



b. Yesterday, Priya successfully made 12 free throws. Today, she made 150% as many. How many successful free throws did Priya make today?



2. A 16-ounce bottle of orange juice says it contains 200 milligrams of vitamin C, which is 250% of the daily recommended allowance of vitamin C for adults. What is 100% of the daily recommended

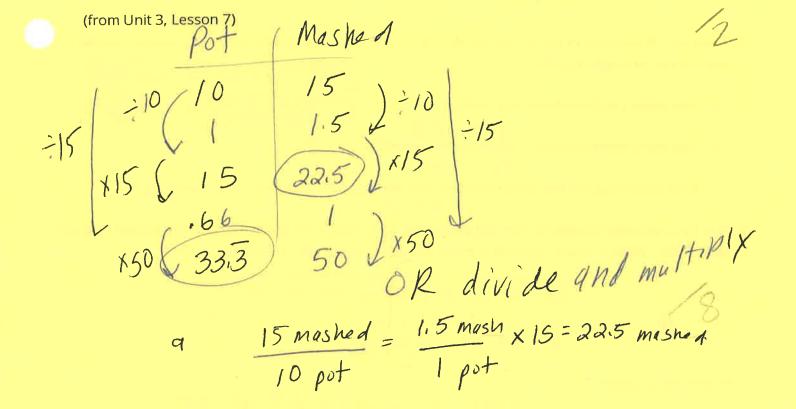


3. At a school, 40% of the sixth-grade students said that hip-hop is their favorite kind of music. If 100 sixth-grade students prefer hip hop music, how many sixth-grade students are at the school? Explain or show your reasoning.

4. Diego has a skateboard, scooter, bike, and go-cart. He wants to know which vehicle is the fastest. A friend records how far Diego travels on each vehicle in 5 seconds. For each vehicle, Diego travels as fast as he can along a straight, level path.

			a. 100 inches equal 254 centimeters. What is
	vehicle	distance traveled	the distance each vehicle traveled in centimeters?
3nd fasker	skateboard	90 feet × 12	mches = 1080 inches x 2.54 = 2743.2 cm b. Rank the vehicles in order from fastest to
4m fisks	scooter	1,020 inches 🗡 🎾	slowest.
fask st	bike	4,800 centimeters	251018 CM
2 rd fast	go-cart	0.03 kilometers	= 3003 cm /2
(from Unit 3, Lesson 9) $1 \text{ Km} 1000 \text{ m}$ $33.03 \text{ m} \times 1000 \text{ m} = 3003 \text{ cm}$			

- 5. It takes 10 pounds of potatoes to make 15 pounds of mashed potatoes. At this rate:
  - a. How many pounds of mashed potatoes can they make with 15 pounds of potatoes?
- b. How many pounds of potatoes are needed to make 50 pounds of mashed potatoes?



Unit 3: Unit Rates and Percentages Lesson 11: Percentages and Double

Number Lines

b. 10 pot = 166 pot x 50 = 33,3 potates 3

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