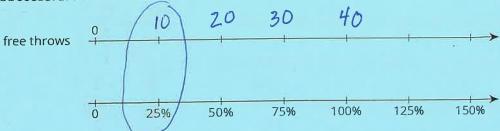
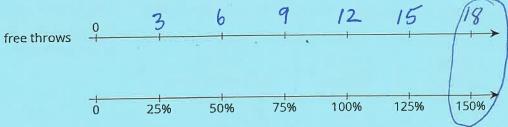
Unit 3, Lesson 11: Percentages and Double Number Lines

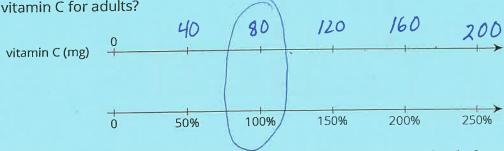
- 1. Solve each problem. If you get stuck, consider using the double number lines.
 - a. During a basketball practice, Mai attempted 40 free throws and was successful on 25% of them. How many successful free throws did she make?



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 allowance of vitamin C for adults?



- 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.

NAME

DATE

PERIOD

vehicle	distance traveled	CM
skateboard	10990 feet ×/2=	2743,2
scooter	1,020 inches	2590.8
bike	4,800 centimeters	4800
go-cart	0.03 kilometers ×/00	
30 × 100 cm = 3000		

a. 100 inches equal 254 centimeters. What is the distance each vehicle traveled in 1 inch = 2.54 cm centimeters? see table

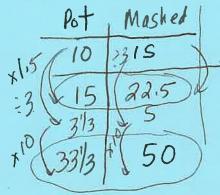
b. Rank the vehicles in order from fastest to slowest.

(from Unit 3, Lesson 9)

- 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?

(from Unit 3, Lesson 7)

22.5 pounds masked



or potatoes x 3 = masked

and or masked x 2 > potatoes