

Scale Sense

Read measurement scales to find intervals.

GRADE 4 • NY-4.MD.2.b

NY-4.MD.2.b "Represent measurement quantities using diagrams that feature a measurement scale, such as number lines."

NAME _____

DATE _____

FIND THE INTERVAL

On a measurement scale, each tick mark has a value. To find the interval between two points, read both values and subtract the smaller value from the larger value.

WORKED EXAMPLE

A water container is at Start and later reaches End. How many liters of water were added?

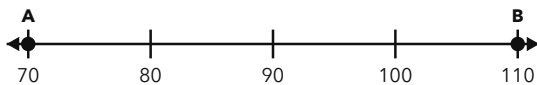


1. Read Start as 1.5 L and End as 4.5 L.
2. Subtract: $4.5 - 1.5 = 3$.
3. The amount added is 3 L.

Answer: 3 L

PRACTICE 6 problems

- 1** The number line shows two trail markers in meters. How far is it from A to B?



ANSWER _____

- 2** The number line shows the positions of two boats along a canal, in meters. What is the distance from C to D?



ANSWER _____

- 3** A bus ride began at 6:10 and ended at 6:45. How many minutes did the ride last?

ANSWER _____

- 4** Nia has \$14. She spends \$6 on a notebook. How much money does she have left?

ANSWER _____

- 5** A fish tank holds 7 L of water. Then 800 mL of water is removed. How much water is left?

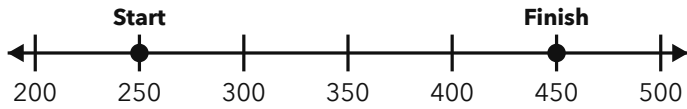
ANSWER _____

- 6** A backpack has a mass of 9 kg. A box has a mass of 7 kg. What is their total mass?

ANSWER _____

APPLY IT Show your work

- 1** A skateboard race course is marked in meters. Jalen starts at Start and finishes at Finish. How many meters does Jalen skateboard?



ANSWER _____

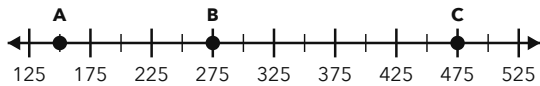
- 2** Mina starts a video game tournament at 10:35. The tournament ends at 12:05. How long does the tournament last?

WORK SPACE

ANSWER _____

CHALLENGE One step up

A charity walk begins at A, has a rest stop at B, and ends at C. How far is the whole walk from A to C? Explain how the scale shows your answer.



WORK SPACE AND ANSWER

PART 1 • PRACTICE

#	PROBLEM	ANSWER
1	The number line shows two trail markers in meters. How far is it from A to B?	40 m
2	The number line shows the positions of two boats along a canal, in meters. What is the distance from C to D?	45 m
3	A bus ride began at 6:10 and ended at 6:45. How many minutes did the ride last?	35 minutes
4	Nia has \$14. She spends \$6 on a notebook. How much money does she have left?	\$8
5	A fish tank holds 7 L of water. Then 800 mL of water is removed. How much water is left?	6,200 mL
6	A backpack has a mass of 9 kg. A box has a mass of 7 kg. What is their total mass?	16 kg

PART 2 • APPLY IT

1. **200 m** Read the start and finish values on the scale. Subtract 250 from 450.
2. **1 hour 30 minutes** From 10:35 to 11:35 is 1 hour. From 11:35 to 12:05 is 30 more minutes.

CHALLENGE

325 m; A to B is 125 m and B to C is 200 m, so $125\text{ m} + 200\text{ m} = 325\text{ m}$.

Accept equivalent unit wording, such as 1 h 30 min for the tournament. For the challenge, accept $475 - 150 = 325\text{ m}$ or adding the two intervals.