LESSON MAKER PRO

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?

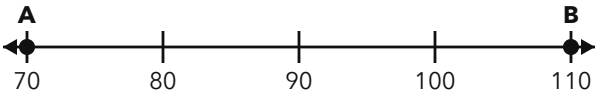


1. Read Start as 1.5 L and End as 4.5 L.
2. Subtract: 4.5 - 1.5 = 3.
3. The amount added is 3 L.

Answer: 3 L

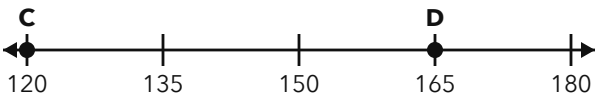
PRACTICE 6 problems

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?

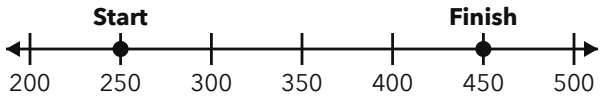
ANSWER _____

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 _____

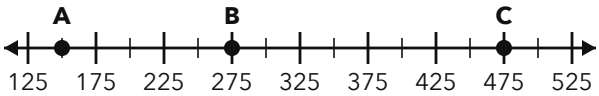
2 Mina starts a video game tournament at 10:35 and finishes at 12:05. On the blank elapsed-minute scale, mark and label the start at 0 minutes, the time 11:35 at 60 minutes, and the finish at 90 minutes. Draw and label a 60-minute jump and then a 30-minute jump. Use your diagram to state how long the tournament lasts.



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

ANSWER KEY # Scale Sense

GRADE 4 · NY-4.MD.2.b

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** Require the learner to mark the scale and draw the two interval jumps: 0 to 60 minutes (10:35 to 11:35), then 60 to 90 minutes (11:35 to 12:05). Total 60 + 30 = 90 minutes = 1 hour 30 minutes.

CHALLENGE

325 m; A to B is 125 m and B to C is 200 m, so 125 m + 200 m = 325 m.

Accept equivalent unit wording, such as 1 h 30 min for the tournament. For the challenge, accept 475 - 150 = 325 m or adding the two intervals. For Apply 2, check an actual learner-made scaled representation, including the three endpoint/time labels and two jumps; the duration alone is incomplete.

Scale Sense

Apply 2: elapsed minutes; 0 is 10:35, 60 is 11:35, and 90 is 12:05.

