LESSON MAKER PRO

Graph the Difference

Read scales, compare bars, and track change.

GRADE 5 · 5.D.1.2

5.D.1.2 "Create and analyze line and double-bar graphs with increments of whole numbers, fractions, and decimals."

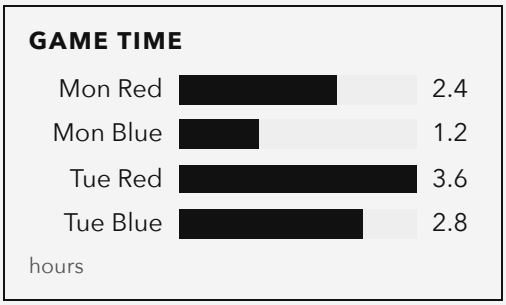
NAME _____ DATE _____

READ THE SCALE

A line graph shows how a value changes over time. A double-bar graph compares two groups at each time. Check the scale, then use the values to find a difference.

WORKED EXAMPLE

How much longer did Red play than Blue on Tuesday?



1. Read Tuesday's bars: Red 3.6 hours, Blue 2.8 hours.
2. Subtract: 3.6 - 2.8 = 0.8.

Answer: 0.8 hours

PRACTICE 4 problems

1 A graph starts at 0 and uses 1/4 per tick. What value is at the third tick?

ANSWER _____

2 A line graph uses 0.2 per tick. How many ticks above 0 is 1.6?

ANSWER _____

3 A graph uses 0.25 per tick. How many ticks above 0 is 1.75?

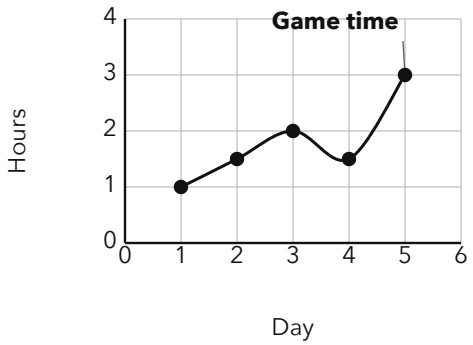
ANSWER _____

4 Two bars will show 2.3 liters and 1.6 liters. What will the difference in their lengths represent?

ANSWER _____

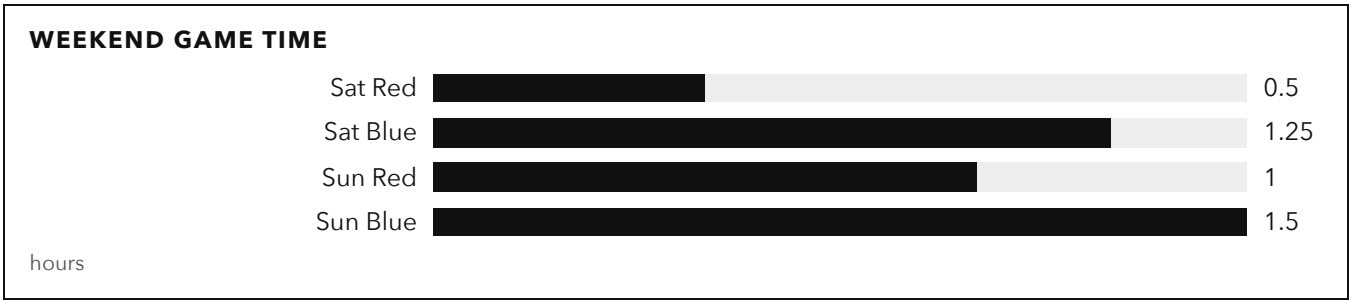
APPLY IT Show your work

1 This line graph shows daily game time. How much more time was played on day 5 than on day 2?



ANSWER _____

2 Red and Blue tracked their game time. How many more hours did Blue play than Red across both days?



ANSWER _____

CHALLENGE One step up

You plan a line graph for pages read: Monday 1/2 page, Tuesday 1 1/4 pages, Wednesday 3/4 page. Will 1/2-page ticks place every point on a tick mark? If not, choose a tick size that will and explain why.

WORK SPACE AND ANSWER

ANSWER KEY

Graph the Difference

GRADE 5 · 5.D.1.2

PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	A graph starts at 0 and uses 1/4 per tick. What value is at the third tick?	**3/4**
2	A line graph uses 0.2 per tick. How many ticks above 0 is 1.6?	**8 ticks**
3	A graph uses 0.25 per tick. How many ticks above 0 is 1.75?	**7 ticks**
4	Two bars will show 2.3 liters and 1.6 liters. What will the difference in their lengths represent?	**0.7 liters**

PART 2 · APPLY IT

1. **1.5 hours** Read 3 hours on day 5 and 1.5 hours on day 2. Subtract: 3 - 1.5 = 1.5.
2. **1.25 hours** Blue played 1.25 + 1.5 = 2.75 hours. Red played 0.5 + 1 = 1.5 hours, so the difference is 1.25 hours.

CHALLENGE

No. Use 1/4-page ticks. Each value is a multiple of 1/4 page, but 3/4 and 1 1/4 are not multiples of 1/2 page.

Accept equivalent fraction and decimal forms. For the challenge, accept a smaller tick size if it places all three values on tick marks.