MY Homework

Homework Helper

eHelp

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Lance is helping his dad remodel their house. He cuts boards with lengths of 2 feet and 8 feet. Find the amount of material needed for 1, 2, 3, and 4 boards of each length. Then graph the results as ordered pairs on a coordinate plane. How many more feet of 8-foot boards would there be if Lance cuts 3 boards of both lengths?

1 Complete the tables below.

2-Foot Board				
Number of Boards	1	2	3	4
Length (ft)	2	4	6	8

8-Foot Board				
Number of Boards	1	2	3	4
Length (ft)	8	16	24	32

2 Generate ordered pairs. Let each *x*-coordinate represent the number of boards. Let each *y*-coordinate represent the length in feet of each board.

2-Foot Board
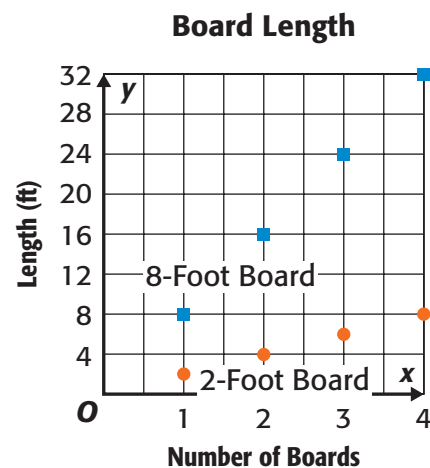(1, 2), (2, 4), (3, 6), (4, 8)

8-Foot Board
(1, 8), (2, 16), (3, 24), (4, 32)

3 Graph each set of ordered pairs on a coordinate plane.
If Lance cuts 3 boards of both lengths, he will have 6 feet of 2-foot boards and 24 feet of 8-foot boards.
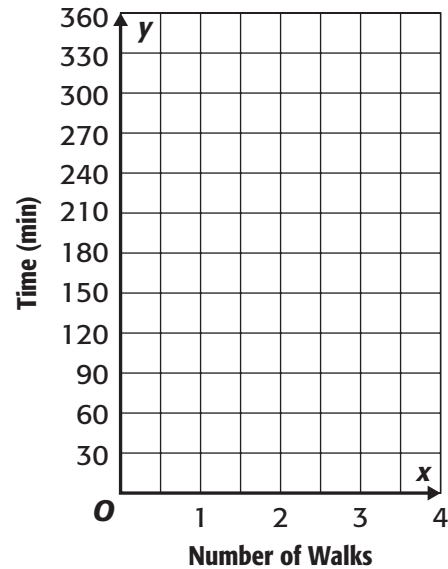$24 - 6 = 18$

Board Length

So, there will be 18 more feet of 8-foot boards if he cuts 3 boards of both lengths.

Problem Solving

1. **Mathematical PRACTICE** ▶ **4** **Model Math** Jarrett walks his puppy outside every day for 30 minutes. Angela walked her puppy every day for 90 minutes. Find the number of minutes that each puppy was walked for 1, 2, 3, and 4 days. Then graph the results as ordered pairs. How many more minutes does Angela spend walking her puppy over 2 days compared to Jarrett walking his puppy over 2 days?

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Puppy Training

Time (min) — y-axis: 30, 60, 90, 120, 150, 180, 210, 240, 270, 300, 330, 360
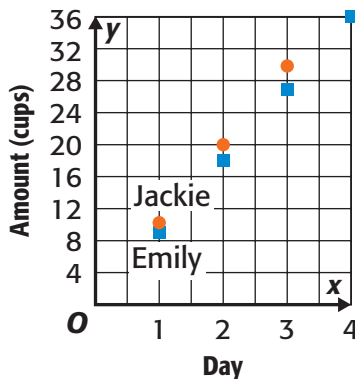Number of Walks — x-axis: 1, 2, 3, 4

Test Practice

2. Emily drinks 6 cups of water every day, while Jackie drinks 8 cups of water every day. Which graph represents the total amount of water consumed by Emily and Jackie over a 4-day period?
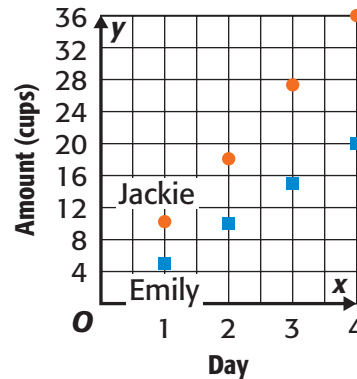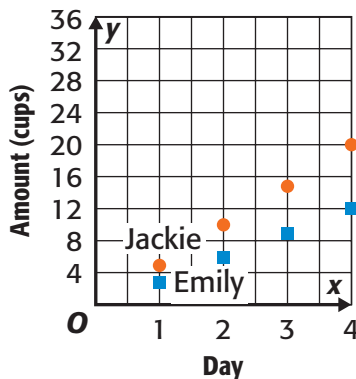
Ⓐ **Water Intake**
Amount (cups) — y-axis
Day — x-axis
Jackie
Emily

Ⓒ **Water Intake**
Amount (cups) — y-axis
Day — x-axis
Jackie
Emily

Ⓑ **Water Intake**
Amount (cups) — y-axis
Day — x-axis
Jackie
Emily

Ⓓ **Water Intake**
Amount (cups) — y-axis
Day — x-axis
Jackie
Emily