

Response 1

Kim and Bob were running equally fast around a track. Kim started first. When she had run 9 laps, Bob had run 3 laps. When Bob had run 15 laps, how many laps had Kim run? Show your work.

Handwritten work showing a ratio of laps for Kim and Bob, and the final answer:

$$\frac{\text{Kim}}{\text{Bob}} = \frac{9 \text{ laps}}{3 \text{ laps}} = \frac{45 \text{ laps}}{15 \text{ laps}}$$

Kim had run 45 laps.

Response 2

Kim and Bob were running equally fast around a track. Kim started first. When she had run 9 laps, Bob had run 3 laps. When Bob had run 15 laps, how many laps had Kim run? Show your work.

9:3 is the ratio of Kim's laps to Bob's laps. To find the answer you can make a proportional ratio.

$$9:3 = 45:15$$

$$\begin{aligned} 3 \times 5 &= 15 \\ 9 \times 5 &= 45 \end{aligned}$$

Kim would have run 45 laps when he has run 15. The ratio of his laps to hers is 15:45.

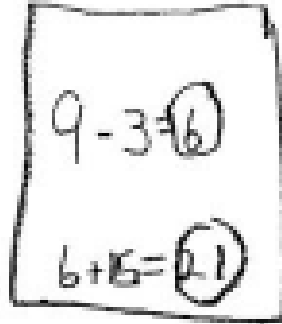
Response 3

Kim and Bob were running equally fast around a track. Kim started first. When she had run 9 laps, Bob had run 3 laps. When Bob had run 15 laps, how many laps had Kim run? Show your work.

21, because she is always
6 laps ahead of bob.

Response 4

Kim and Bob were running equally fast around a track. Kim started first. When she had run 9 laps, Bob had run 3 laps. When Bob had run 15 laps, how many laps had Kim run? Show your work.



Handwritten work showing two equations:

$$9 - 3 = 6$$
$$6 + 15 = 21$$

Response 5

Kim and Bob were running equally fast around a track. Kim started first. When she had run 9 laps, Bob had run 3 laps. When Bob had run 15 laps, how many laps had Kim run? Show your work.

$$\frac{9}{3} \times \frac{5}{5} = \frac{45}{15}$$

9	:	3
18	:	6
27	:	9
36	:	12
45	:	15

9 laps for every 3 laps.

Answer
 Kim had run
 45 laps when Bob ran 15.

Explanation: I figured out the answer by multiply multiplying $\frac{9}{3}$ by $\frac{5}{5}$ which equals $\frac{45}{15}$. Bob ran 15 laps and she ran 45 laps, because for every 3 laps Bob ran, Kim ran 9 laps. I also made a chart that I didn't really have to.

Response 6

Kim and Bob were running equally fast around a track. Kim started first. When she had run 9 laps, Bob had run 3 laps. When Bob had run 15 laps, how many laps had Kim run? Show your work.

21

Because Kim had ran 6 laps more
than Bob so if Bob ran 15 Kim ran

21

Response 7

Kim and Bob were running equally fast around a track. Kim started first. When she had run 9 laps, Bob had run 3 laps. When Bob had run 15 laps, how many laps had Kim run? Show your work.

$$\frac{\text{Kim's Laps}}{\text{Bob's Laps}} = \frac{9}{3} = \frac{n}{15} \quad n = 45$$

Response 8

Kim and Bob were running equally fast around a track. Kim started first. When she had run 9 laps, Bob had run 3 laps. When Bob had run 15 laps, how many laps had Kim run? Show your work.

21 because
First she ran 9 and
He ran 3 so $9 - 3 = 6$
so that $15 + 6 = 21$ so
Kim ran 21 laps.

Response 9

Kim and Bob were running equally fast around a track. Kim started first. When she had run 9 laps, Bob had run 3 laps. When Bob had run 15 laps, how many laps had Kim run? Show your work.

$$\begin{array}{l} \text{Bob } 3 \\ \text{Kim } 9 \end{array} \quad \begin{array}{l} 3 \times 5 = 15 \\ 9 \times 5 = 45 \end{array}$$

Kim will have run 45 laps when Bob has run 15 because you have to multiply $3 \times 5 = 15$. What you do to one problem you have to do the same. $9 \times 5 = 45$.