

Response 1

The chart below shows the population of raccoons in two towns and the area of the two towns.

Town A	Town B
60 square miles	40 square miles
480 raccoons	380 raccoons

Karl says that Town A has more raccoons per square mile than Town B. Josh says Town B has more raccoons per square mile than town A.

Who is right? Show your work.

answer. Josh

Town A

8 raccoons per square mile

$$\begin{array}{r} 008 \\ 60 \overline{)480} \\ \underline{-480} \\ 0 \end{array}$$

Town B

9.5 raccoons per square mile.

$$\begin{array}{r} 009.5 \\ 40 \overline{)380.0} \\ \underline{-360} \downarrow \\ 200 \\ \underline{-200} \\ 0 \end{array}$$

Response 2

The chart below shows the population of raccoons in two towns and the area of the two towns.

Town A	Town B
60 square miles	40 square miles
480 raccoons	380 raccoons

Karl says that Town A has more raccoons per square mile than Town B. Josh says Town B has more raccoons per square mile than town A.

Who is right? Show your work.

answer.

$$\begin{array}{r} 480 \\ \cancel{60} \\ \hline 1080 \end{array}$$

(A)

$$\begin{array}{r} 380 \\ 40 \\ \hline 420 \end{array}$$

(B)

Karl is right there are more cause of 60 and 480 and all together is 1080 and it just even more cause of 60 and 480 while 40 and 380 are small to A it only equals 420 so it's still smaller.

Response 3

The chart below shows the population of raccoons in two towns and the area of the two towns.

<i>Town A</i>	<i>Town B</i>
60 square miles	40 square miles
480 raccoons	380 raccoons

Karl says that Town A has more raccoons per square mile than Town B. Josh says Town B has more raccoons per square mile than town A.

Who is right? Show your work.

Handwritten work showing calculations for raccoons per square mile in Town A and Town B, and a conclusion.

$$60 \div 3 = 20$$
$$480 \div 3 = 160$$
$$40 \div 2 = 20$$
$$380 \div 2 = 190$$

Josh is right

Response 4

The chart below shows the population of raccoons in two towns and the area of the two towns.

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480 raccoons	380 raccoons

Karl says that Town A has more raccoons per square mile than Town B. Josh says Town B has more raccoons per square mile than town A.

Who is right? Show your work.

answer. Karl is right
Because $480 \times 60 = 28,800$ and
 $380 \times 40 = 15,200$

Response 5

The chart below shows the population of raccoons in two towns and the area of the two towns.

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Who is right? Show your work.

answer.

$$\frac{60}{480} = \frac{1}{8}$$

$$\frac{40}{380}$$

Town A because
 $\frac{1}{8}$ is bigger than $\frac{2}{19}$

Response 6

The chart below shows the population of raccoons in two towns and the area of the two towns.

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60 square miles	40 square miles
480 raccoons	380 raccoons

Karl says that Town A has more raccoons per square mile than Town B. Josh says Town B has more raccoons per square mile than town A.

Who is right? Show your work.

The student work includes a key, two diagrams, and a conclusion:

- Key:** A square represents 10 square miles, and a dot represents 10 raccoons.
- Town A Diagram:** A horizontal row of 6 squares, each containing 8 dots.
- Town B Diagram:** A horizontal row of 4 squares, each containing 12 dots. An arrow points to one square with the label "+5 raccoons", indicating the density of each square.
- Conclusion:** A handwritten note stating: "Town A has 80 raccoons per square mile. Town B has 95 raccoons per square mile. 95 is more than 80, so Josh is right."

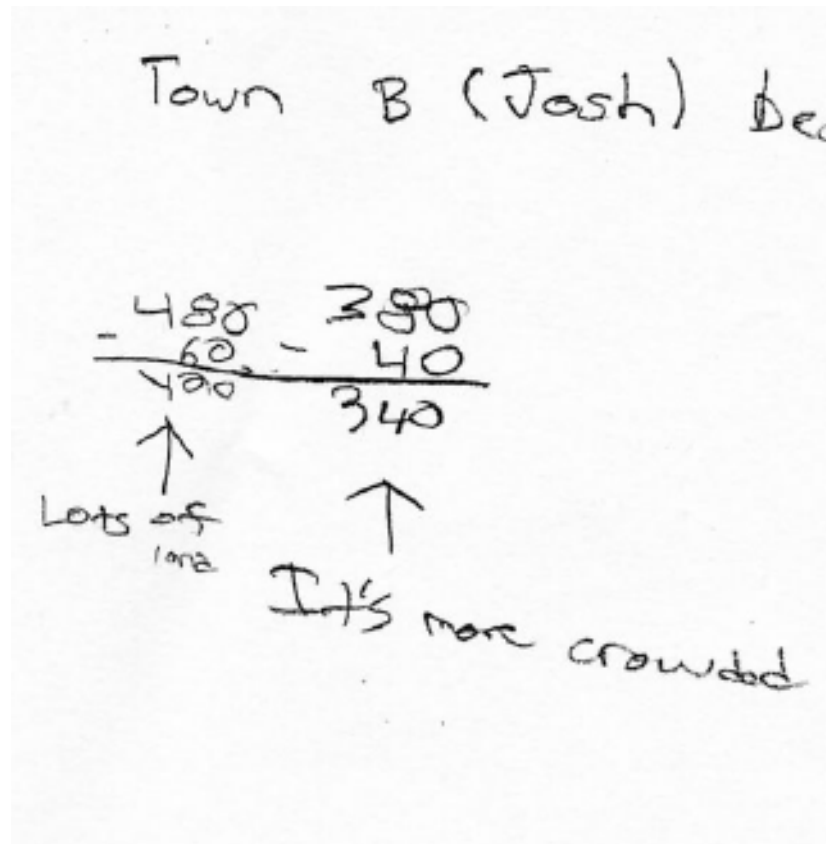
Response 7

The chart below shows the population of raccoons in two towns and the area of the two towns.

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Who is right? Show your work.



Response 8

The chart below shows the population of raccoons in two towns and the area of the two towns.

Town A	Town B
60 square miles	40 square miles
480 raccoons	380 raccoons

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Who is right? Show your work.

answer. Josh is right.

Karl

$$\begin{array}{r} 60 \\ \times 2 \\ \hline 1200 \\ \downarrow \\ 480 \\ \times 2 \\ \hline 960 \end{array}$$

$$\begin{array}{r} 480 \\ + 480 \\ \hline 960 \end{array}$$

Josh

$$\begin{array}{r} 40 \\ \times 3 \\ \hline 1200 \\ \downarrow \\ 380 \\ \times 3 \\ \hline 1140 \end{array}$$

$$\begin{array}{r} 380 \\ + 380 \\ \hline 760 \\ + 380 \\ \hline 1140 \end{array}$$

Response 9

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Karl says that Town A has more raccoons per square mile than Town B. Josh says Town B has more raccoons per square mile than town A.

Who is right? Show your work.

answer.

(JOSH)

$60 \text{ sqm} \times 8 = 480$

8 raccoons per sqm,

$40 \text{ sqm} \times \overset{\text{about}}{9} = 360$

about 9 raccoons per sqm