

Name _____

Date _____

Juice Box Mixup

A school needed 240 four-packs of juice boxes for a field trip. However, the school accidentally bought 240 *six-packs* of juice boxes. How many extra juice boxes did the school buy?

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Water Relief

After a hurricane, the 12 residents of a nursing home didn't have any clean water to drink. Their neighbors donated 40 gallons of bottled water, which would provide _____ gallons for each resident.



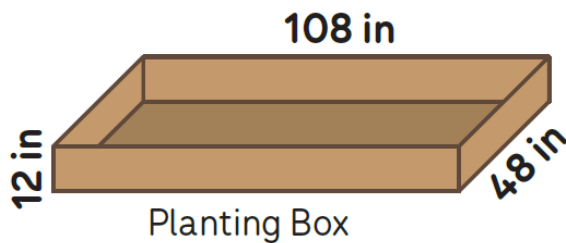
Answer: _____

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Neighborhood Garden

A neighborhood garden will have 6 wooden planting boxes.
Every box will have the same shape (see diagram).



Soil can be bought by the truckload; a truckload is 54 ft^3 of soil. How many truckloads of soil will fill all of the boxes?

Answer: _____

Student Name _____

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(1) Circle T for true or F for false.

- a. 9 thousandths + 5 hundredths > 3 hundredths + 2 tenths T F
- b. 92 hundredths + 4 thousandths > 0.924 T F
- c. 0.456 < 0.5 T F

(2) Write each number in the requested form.

- a. 7 thousandths + 5 tenths = _____ (decimal)
- b. 0.1 tenths = _____ (decimal)
- c. $\frac{2}{100} + \frac{5}{1000} =$ _____ (decimal)
= _____ (fraction in lowest terms)

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Calculating

Write the requested values.

$$\begin{array}{r} \text{(a)} \quad 4087 \\ \times \quad 53 \\ \hline \end{array}$$

$$\begin{array}{r} \text{(b)} \quad 246 \\ \times \quad 914 \\ \hline \end{array}$$

$$\text{(c)} \quad 12 \overline{)9744}$$

$$\text{(d)} \quad 6 \overline{)1461}$$

$$\text{(e)} \quad 4 - (8 - 4) = \underline{\quad}$$

$$\text{(f)} \quad \frac{1}{10} \div 10 = \underline{\quad}$$

$$\text{(g)} \quad \frac{7}{8} \times \frac{5}{3} = \underline{\quad}$$

$$\text{(h)} \quad 8 \times \underline{\quad} = 73$$

$$\text{(i)} \quad 3 \div \frac{1}{8} = \underline{\quad}$$

$$\text{(j)} \quad \frac{1}{2} + \frac{1}{3} - \frac{1}{5} = \underline{\quad}$$

$$\text{(k)} \quad \frac{1}{3} \div (6 \times 5) = \underline{\quad}$$

$$\text{(l)} \quad 0.4 \times 0.9 = \underline{\quad}$$

$$\text{(m)} \quad 0.75 \div 0.01 = \underline{\quad}$$

$$\text{(n)} \quad 0.63 \div 0.3 = \underline{\quad}$$

$$\text{(o)} \quad 0.86 + 0.4 = \underline{\quad}$$

$$\text{(p)} \quad 0.72 - 0.17 = \underline{\quad}$$

$$\text{(q)} \quad 0.02 + 0.2 = \underline{\quad}$$

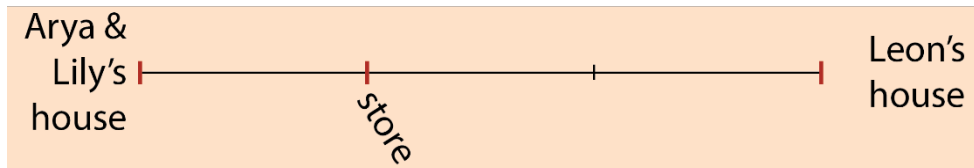
$$\text{(r)} \quad 0.8 - 0.55 = \underline{\quad}$$

$$\text{(s)} \quad 637 - 1.31 = \underline{\quad}$$

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Corner Store



(1) Arya and Lily's house is $\frac{1}{5}$ mile from the store.

(a) Arya ran $\frac{1}{3}$ of the way from her house to the store. How far, in miles, did Arya run?

(b) Lily ran $\frac{2}{3}$ of the way from her house to the store. How far, in miles, did Lily run?

(2) It is $\frac{2}{5}$ mile from Leon's house to the store.

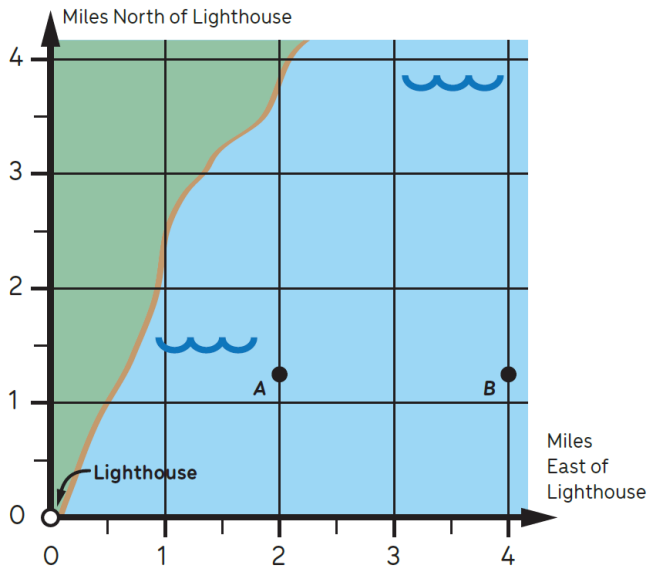
(a) Leon ran $\frac{1}{3}$ of the way from his house to the store. How far, in miles, did Leon run?

(b) Compare how far Leon and Lily ran; what do you notice, and why is it true?

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Shipwrecks



The map shows an ocean near a coastline. Shipwrecks are at locations $A\left(2, 1\frac{1}{4}\right)$ and $B\left(4, 1\frac{1}{4}\right)$. Shipwrecks are also at locations $C\left(4, 3\frac{1}{2}\right)$ and $D\left(2, 3\frac{1}{2}\right)$.

- (1) Mark locations C and D on the map and shade rectangle $ABCD$.
- (2) Some believe there is sunken treasure in the region you shaded. How large is that region in mi^2 ?

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Alana's New Shape Category

A *scalene triangle* is a triangle in which the sides all have different lengths. Thinking about this, Alana decided there should also be a name for quadrilaterals in which the sides all have different lengths. She said, “I’ll name them after myself.” She defined an *alana-gon* to be a quadrilateral in which the four sides all have different lengths.

(1) Draw an example of an alana-gon.

(2) True or false:

(a) All squares are alana-gons. _____

(b) No trapezoids are alana-gons. _____

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Walkathon

On Saturday there was a walkathon.



Catherine

I walked $\frac{1}{3}$ mile farther than Leslie.

I walked $1\frac{1}{4}$ mile.

How many miles did Leslie walk?

Name _____

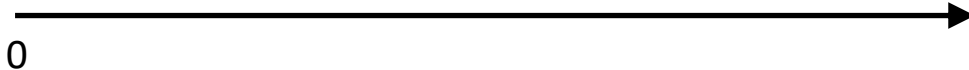
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Number System, Number Line

(1) Solve: $\frac{1}{3} = 0.1 + ?$

(2) Is there a number greater than $\frac{1}{5}$ and less than $\frac{1}{4}$? If you think so, find such a number. If think there is no such number, explain why.

(3) Show one of the above problems and its solution on a number line.

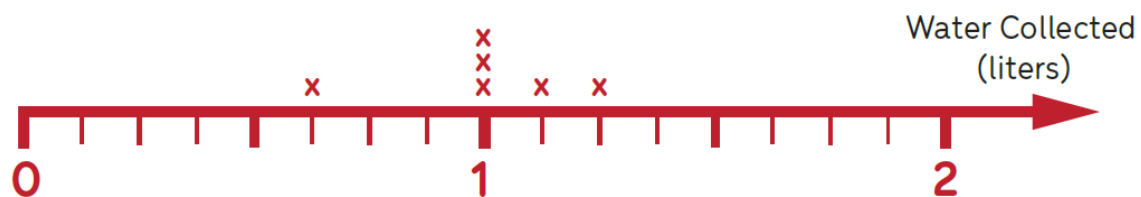


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Rain Measurements

Before it rained, the teacher went outside and placed identical baking pans on the ground. After it rained, the teacher brought the pans inside, and students measured how much water was collected in each pan.



If all the water collected were shared equally among the pans, how much water would be in each pan?

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Frozen Yogurt Machine

In a snack shop there is a frozen yogurt machine. When there is $\frac{3}{4}$ of frozen yogurt in the machine, the machine is $\frac{1}{3}$ full. How much frozen yogurt is in the machine when it is $\frac{1}{4}$ full?

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Brandon's Equation

Brandon was reading his math book. He saw the equation

$$\frac{3}{4} \times \left(4 + \frac{1}{2} \right) = 3 + \frac{3}{8}$$

He said, "I don't get it. Where did the 3 and the $\frac{3}{8}$ come from?" Write an explanation that could answer Brandon's question.