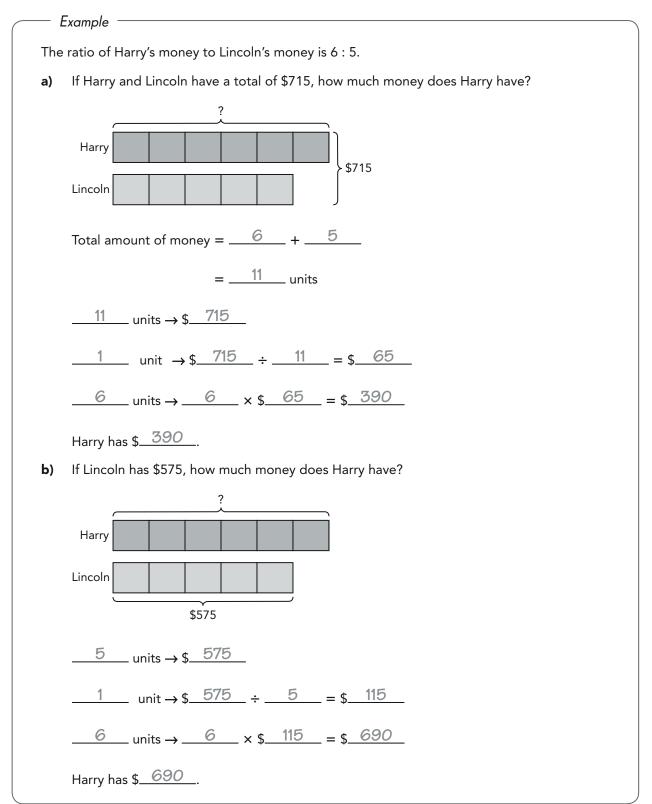
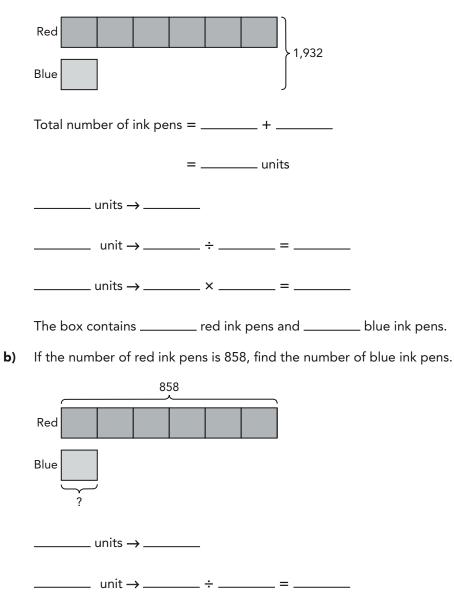
Lesson 4.3 Real-World Problems: Ratios

Solve.



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- **1.** A box contains red ink pens and blue ink pens. The ratio of the number of red ink pens to the number of blue ink pens is 6 : 1.
 - a) If the total number of ink pens is 1,932, find the number of each type of ink pens.



The box contains _____ blue ink pens.

Name: .

- **2.** A wooden plank is cut into two pieces. The ratio of the length of the two pieces of wood is 7 : 10.
 - **a)** If the length of the original wooden plank is 952 centimeters, what is the length of the shorter piece of wood?

b) If the length of the shorter piece of wood is 168 centimeters, what is the length of the longer piece of wood?

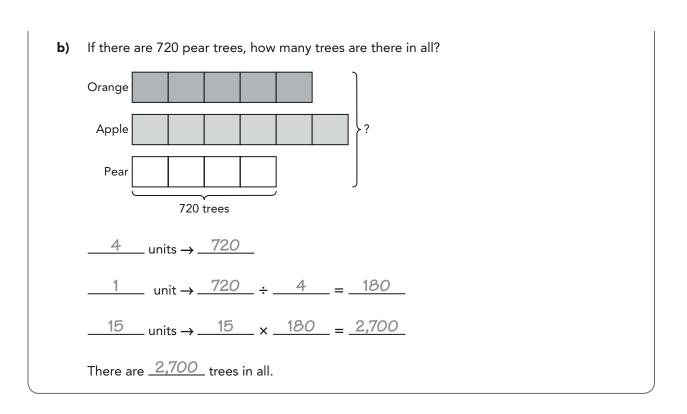
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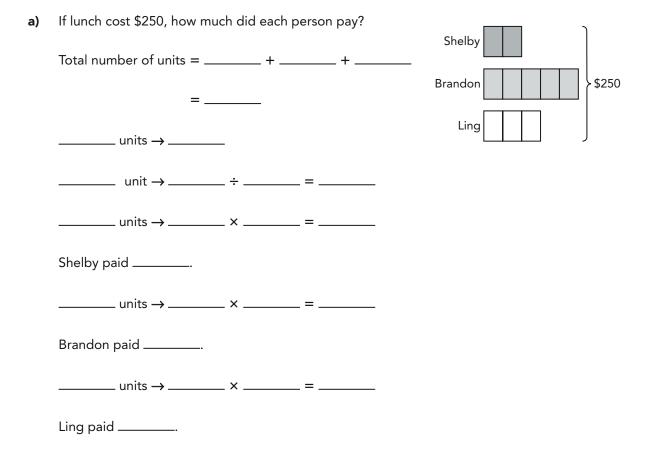
Solve.

Example
The ratio of the number of orange trees to the number of apple trees to the number of pear trees in an orchard is 5 : 6 : 4.
a) If there are 1,275 trees in the orchard, how many of each type of fruit trees are there?
Orange
Apple 1,275 trees
Pear
Total number of units =5 +6 +4
=15
<u>15</u> units → <u>1,275</u>
<u>1</u> unit \rightarrow <u>1,275</u> \div <u>15</u> = <u>85</u>
$\underline{5} \text{units} \rightarrow \underline{5} \text{x} \underline{85} = \underline{425}$
There are <u>425</u> orange trees.
$\phantom{00000000000000000000000000000000000$
There are <u>510</u> apple trees.
$\underline{4} \text{units} \rightarrow \underline{4} \times \underline{85} = \underline{340}$
There are <u>340</u> pear trees.

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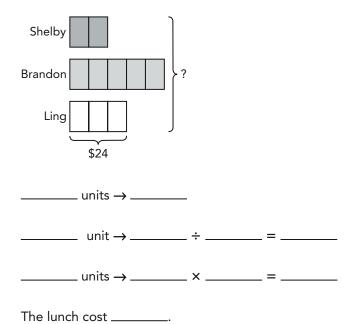


3. Shelby, Brandon, and Ling shared the cost of lunch in the ratio 2 : 5 : 3.



Ν	a	m	e	

b) If Ling paid \$24, how much did the lunch cost?



- 4. The number of stickers collected by Maurice, Elle, and Justin is in the ratio 8 : 5 : 7.
 - **a)** If Maurice collected 960 stickers, how many stickers did Elle and Justin each collect?

b) If the three children have 1,500 stickers altogether, how many stickers did they each collect?