Comparing Money Raised

Task

a. Helen raised $12 for the food bank last year and she raised 6 times as much money this year. How much money did she raise this year?

b. Sandra raised $15 for the PTA and Nita raised $45. How many times as much money did Nita raise as compared to Sandra?

c. Luis raised $45 for the animal shelter, which was 3 times as much money as Anthony raised. How much money did Anthony raise?

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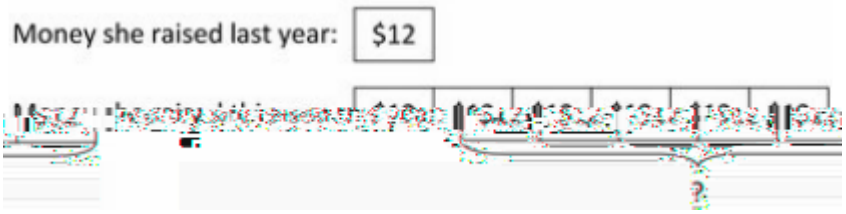
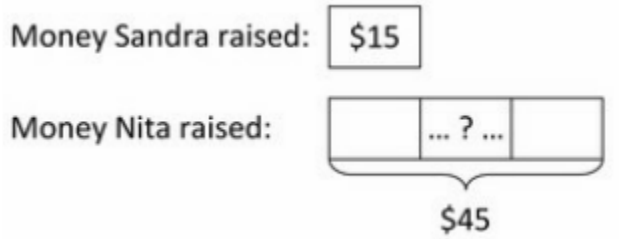
Solution: Tape diagram

a. She raised six times as much money (as shown in the diagram) so she raised $6 \times 12 = 72$.



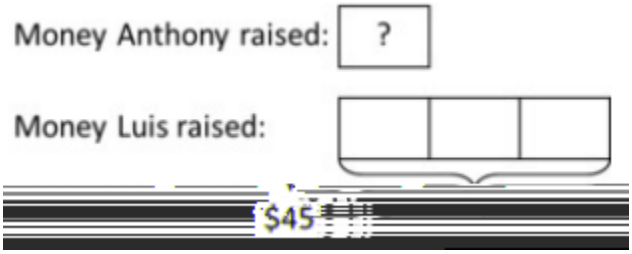
Helen raised $72 this year.

b. $\boxed{?} \times 15 = 45$ is equivalent to $45 \div 15 = \boxed{?}$



Nita raised 3 times as much as Sandra.

c. $3 \times \boxed{?} = 45$ is equivalent to $45 \div 3 = \boxed{?}$



Anthony raised $15.

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Solution: Writing multiplication equations for division problems

a. Helen raised $6 \times \$12$ this year, so she raised $\$72$ this year.

b. □ □□ □ □ □ □ □ □ □ □ □ □

$$\boxed{?} \times 15 = 45$$

or

$$45 \div 15 = \boxed{?}$$

So Nita raised 3 times as much money as Sandra.

c. □ □□ □ □ □ □ □ □ □ □ □

$$3 \times \boxed{?} = 45$$

or

$$45 \div 3 = \boxed{?}$$

So Anthony raised $\$15$.

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