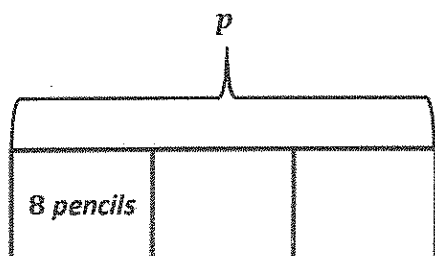


## G3-M3-Lesson 11

1. There are 8 pencils in one box. Corey buys 3 boxes. He gives an equal number of pencils to 4 friends. How many pencils does each friend receive?

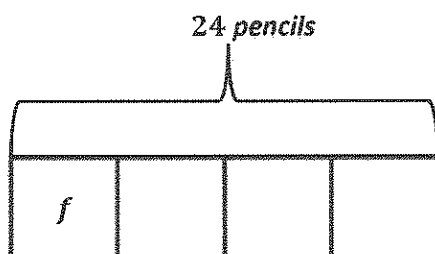


I can draw a tape diagram to help me solve. I know the number of groups is 3, and the size of each group is 8. I need to solve for the total number of pencils. I can use the letter  $p$  to represent the unknown.

$$3 \times 8 = p$$

$$p = 24$$

I can multiply  $3 \times 8$  to find the total number of pencils Corey buys. Now I need to figure out how many pencils each friend gets.



I can draw a tape diagram with 4 units to represent the 4 friends. I know that the total is 24 pencils. I need to solve for the size of each group. I can use the letter  $f$  to represent the unknown.

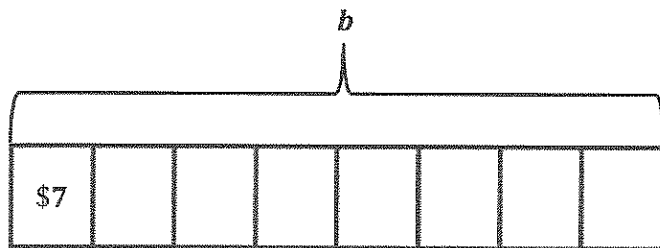
$$24 \div 4 = f$$

$$f = 6$$

I can divide 24 by 4 to find the number of pencils each friend gets.

*Each friend receives 6 pencils.*

2. Lilly makes \$7 each hour she babysits. She babysits for 8 hours. Lilly uses her babysitting money to buy a toy. After buying the toy, she has \$39 left. How much money did Lilly spend on the toy?

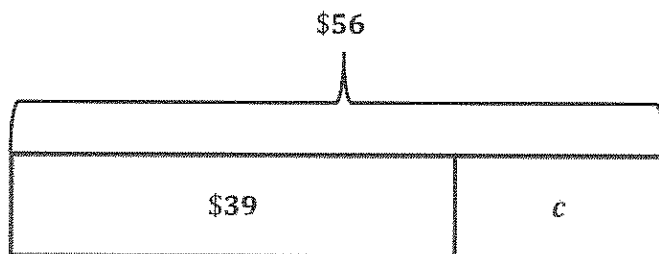


I can draw a tape diagram to help me solve. I know the number of groups is 8, and the size of each group is \$7. I need to solve for the total amount of money. I can use the letter  $b$  to represent the unknown.

$$8 \times \$7 = b$$

$$b = \$56$$

I can multiply  $8 \times \$7$  to find the total amount of money Lilly earns babysitting. Now I need to figure out how much money she spent on the toy.



I can draw a tape diagram with two parts and a total of \$56. One part represents the amount of money Lilly has left, \$39. The other part is the unknown and represents the amount of money Lilly spent on the toy. I can use the letter  $c$  to represent the unknown.

$$\$56 - \$39 = c$$

I can subtract  $\$56 - \$39$  to find the amount of money Lilly spent on the toy.

$$\$57 - \$40 = \$17$$

$$c = \$17$$

I can use compensation to subtract using mental math. I do that by adding 1 to each number, which makes it easier for me to solve.

$$\begin{array}{r} 4 \ 16 \\ \$ \cancel{5} \cancel{6} \\ - \$ 39 \\ \hline \$ 17 \end{array}$$

Or I can use the standard algorithm for subtraction.

*Lilly spent \$17 on the toy.*