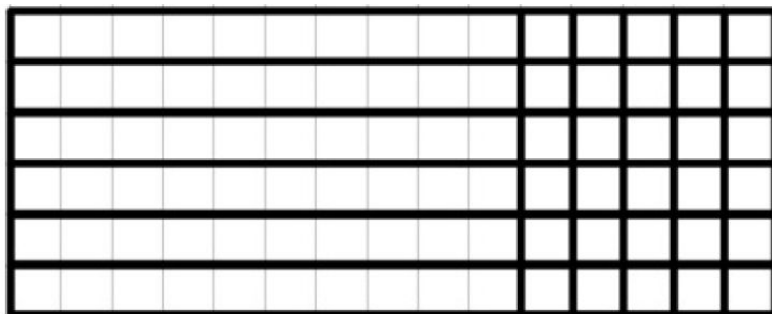


3MA.A.8: solve two-step word problems using the four operations. Represent these problems using equations with a letter standing for the unknown quantity. Assess the reasonableness of answers using mental computation and estimation strategies including rounding

Mrs. Moore's third grade class wants to go on a field trip to the science museum. * The cost of the trip is \$245. * The class can earn money by running the school store for 6 weeks. * The students can earn \$15 each week if they run the store. 1. How much more money does the third grade class still need to earn to pay for their trip? 2. Write an equation to represent this situation.

Solution

a. We can start by finding out how much money the students can make at the store:



$$6 \times 15 = 6 \times 10 + 6 \times 5 = 60 + 30 = 90$$

Since

$$245 - 90 = 155$$

the students still need \$155 dollars for the field trip.

b. We can let n stand for the amount of money they still need. We know that the amount they can make at the store is 6×15 and the amount they need to raise is 245, so one equation is

$$245 - 6 \times 15 = n$$

Another possible equation is

$$6 \times 15 + n = 245$$