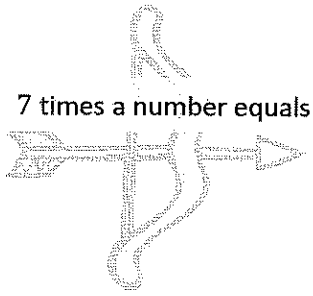
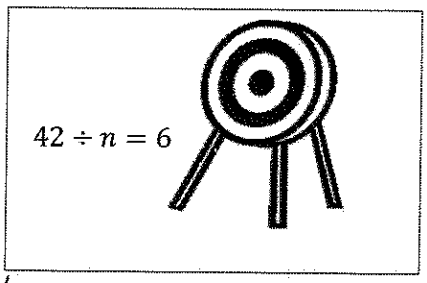
G3-M3-Lesson 7

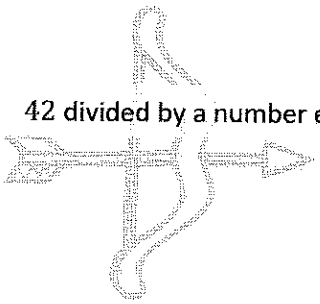
1. Match the words on the arrow to the correct equation on the target.



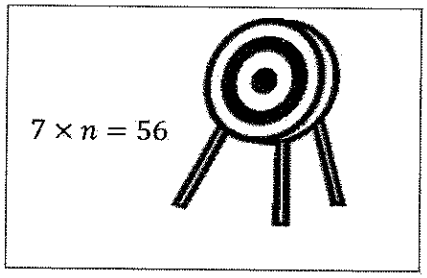
7 times a number equals 56



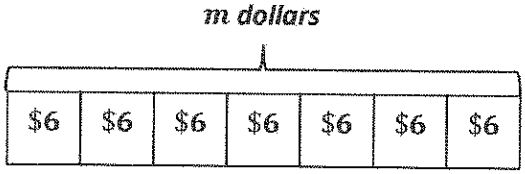
The equations use n to represent the unknown number. When I read the words on the left carefully, I can pick out the correct equation on the right.



42 divided by a number equals 6



2. Ari sells 7 boxes of pens at the school store.
   a. Each box of pens costs \$6. Draw a tape diagram, and label the total amount of money Ari makes as m dollars. Write an equation, and solve for m.



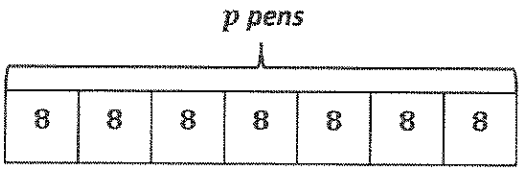
$7 \times 6 = m$

$m = 42$

Ari makes \$42 selling pens.

I'm using the letter m to represent how much money Ari makes. Once I find the value of m, then I know how much money Ari earns selling pens.

b. Each box contains 8 pens. Draw a tape diagram, and label the total number of pens as p. Write an equation, and solve for p.



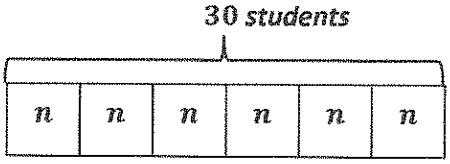
$7 \times 8 = p$

$p = 56$

Ari sells 56 pens.

I can still use a tape diagram to show the 7 boxes of pens that Ari sells, but this time I'll use the letter p to represent the total number of pens. Since there are 8 pens in each box, I know that the value of p is 56.

3. Mr. Lucas divides 30 students into 6 equal groups for a project. Draw a tape diagram, and label the number of students in each group as n. Write an equation, and solve for n.



$30 \div 6 = n$

$6 \times n = 30$

$n = 5$

There are 5 students in each group.

I know that 30 students are split into 6 equal groups, so I have to solve $30 \div 6$ to figure out how many students are in each group. I'll use the letter n to represent the unknown. To solve, I can think about this as division or as an unknown factor problem.