

In Class

Homework

1. Angela is grounded from her iPad for 28 days. (There are 7 days in 1 week.) How many weeks is she grounded? Write an equation and solve.

2. There are 36 liters of water needed to fill a kiddie pool. Each bucket holds 6 liters of water. How many buckets are needed to finish filling the kiddie pool?

a. Represent the problem using multiplication and division sentences and the letter w for the unknown.

a. \_\_\_\_\_ × \_\_\_\_\_ = \_\_\_\_\_ w = \_\_\_\_\_

b. \_\_\_\_\_ ÷ \_\_\_\_\_ = \_\_\_\_\_ w = \_\_\_\_\_

b. Solve for w.

1. George has soccer practice for the next 21 days. (There are 7 days in 1 week.) How many weeks is he practicing? Write an equation and solve.

2. There are 42 liters of water needed to fill a rain barrel. Each bucket holds 7 liters of water. How many buckets are needed to finish filling the rain barrel?

a. Represent the problem using multiplication and division sentences and the letter w for the unknown.

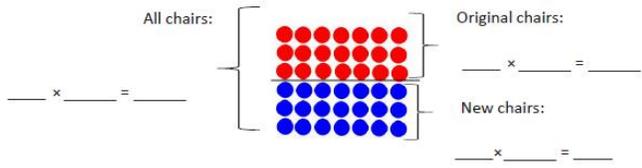
a. \_\_\_\_\_ × \_\_\_\_\_ = \_\_\_\_\_ w = \_\_\_\_\_

b. \_\_\_\_\_ ÷ \_\_\_\_\_ = \_\_\_\_\_ w = \_\_\_\_\_

b. Solve for w.

3. There are 3 rows of 7 chairs set up for a concert. An usher sees the large number of people coming in and needing chairs and doubles the chairs. The chairs are shown below.

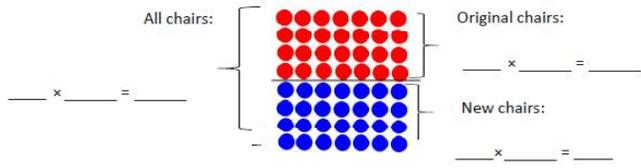
a. Label the array.



b. Explain why 6 x 7 is equal to 2 x (3 x 7).

3. There are 3 rows of 7 chairs set up for a concert. An usher sees the large number of people coming in and needing chairs and doubles the chairs. The chairs are shown below.

a. Label the array.



b. Explain why 8 x 7 is equal to 2 x (4 x 7).

4. Dexter has a stuffed snake that has 7 stripes. She has 6 friends that have the same snake. How many stripes are on the 7 snakes? Write an equation using a letter to represent the unknown. Solve.

4. Jace has a stuffed unicorn that has 8 polka dots. He has 5 friends that have the same unicorn. How many polka dots are on the 6 unicorns? Write an equation using a letter to represent the unknown. Solve.

5. There is a function box. Every time an object gets put in it gets multiplied. Kip writes down what happens each time and tries to find a pattern. Look at her notes below.

In	Out
2 circles	12 circles
3 triangles	18 triangles
4 hearts	24 hearts
5 squares	__squares

a. Use the pattern to fill in the number of squares.

b. What does the function box do? Explain how you know.

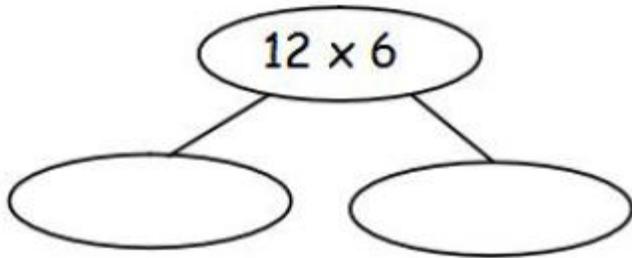
5. There is a magic box. Every time an object gets put in it gets multiplied. Jace writes down what happens each time and tries to find a pattern. Look at the notes below.

In	Out
2 hippos	14 hippos
3 flamingos	21 flamingos
4 tigers	28 tigers
5 bears	_____ bears

a. Use the pattern to fill in the number of bears.

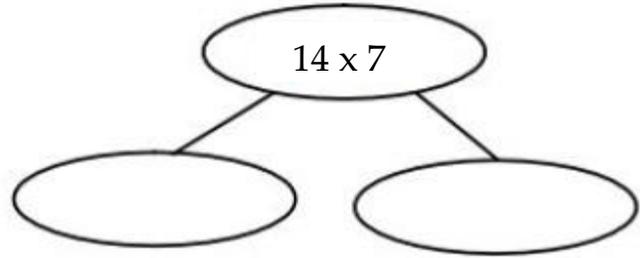
b. What does the function box do? Explain how you know.

6. The magician puts 12 stars into the magic box. Kip draws a number bond to find the total number of stars after they are multiplied in the magic box. Then, use the equations to show how Kip might have solved the problem with the number bond.



$$\begin{aligned}
 12 \times 6 &= (\underline{\quad} \times \underline{\quad}) + (\underline{\quad} \times \underline{\quad}) \\
 &= \underline{\quad} + \underline{\quad} \\
 &= \underline{\quad}
 \end{aligned}$$

6. The math teacher puts 14 dots into a function box. Jace draws a number bond to find the total number of dots after they are multiplied in the function box. Then, use the equations to show how Jace might have solved the problem with the number bond.



$$\begin{aligned}
 14 \times 7 &= (\underline{\quad} \times \underline{\quad}) + (\underline{\quad} \times \underline{\quad}) \\
 &= \underline{\quad} + \underline{\quad} \\
 &= \underline{\quad}
 \end{aligned}$$

7. After the show, Kip and 5 friends share the cost of a giant ice cream sundae that costs \$42. They use the equation  $6 \times n = \$42$  to figure out how much each person pays. How much does Kip pay?

7. On Saturday, Jace and 6 friends share the cost of a giant super veggie pizza that costs \$49. They use the equation  $7 \times n = \$49$  to figure out how much each person pays. How much does Jace pay?