

UNDERSTANDING

# **MULTIPLICATION AND DIVISION**

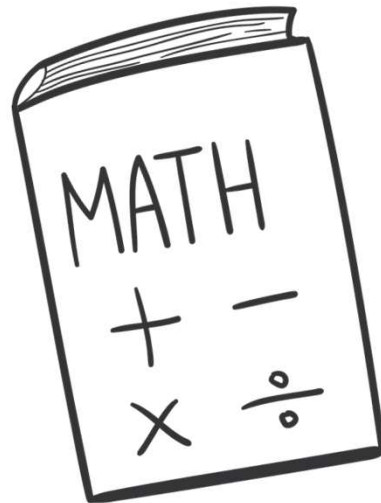
STARS AND CIRCLES

**LESSON 6**

# TODAY'S OBJECTIVE

Today we will use shape cut-outs to show how many in each group.

# TAKE OUT YOUR **MATH JOURNALS**





**During today's lesson you are going to divide objects into equal groups. Let's do one together!**

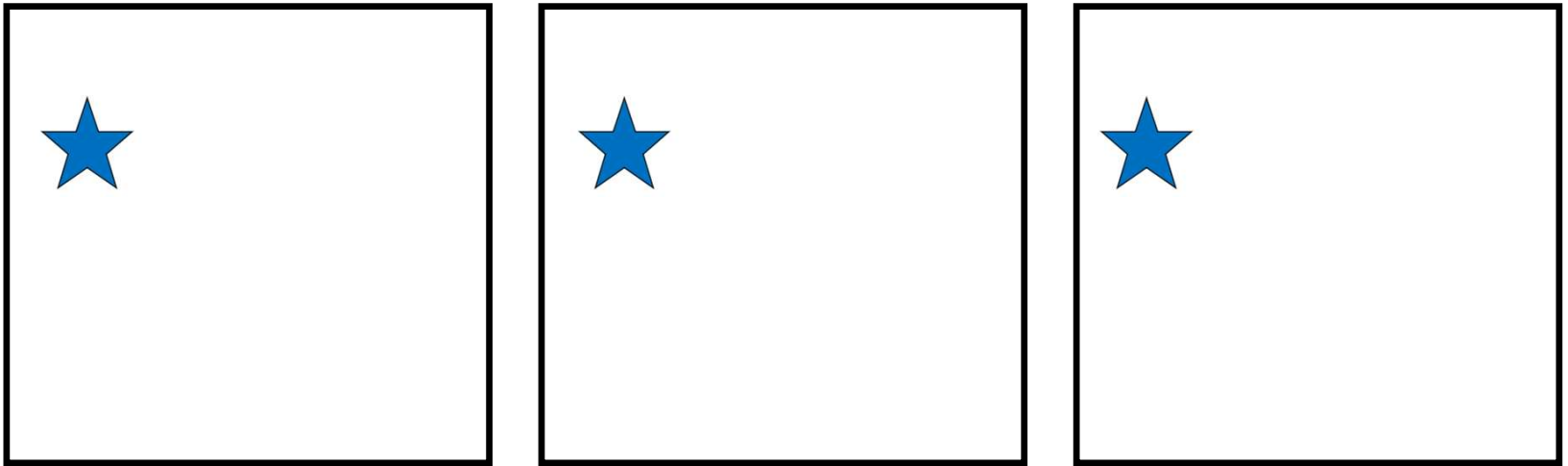
I'm going to divide 18 stars into 3 equal groups.





**During today's lesson you are going to divide objects into equal groups. Let's do one together!**

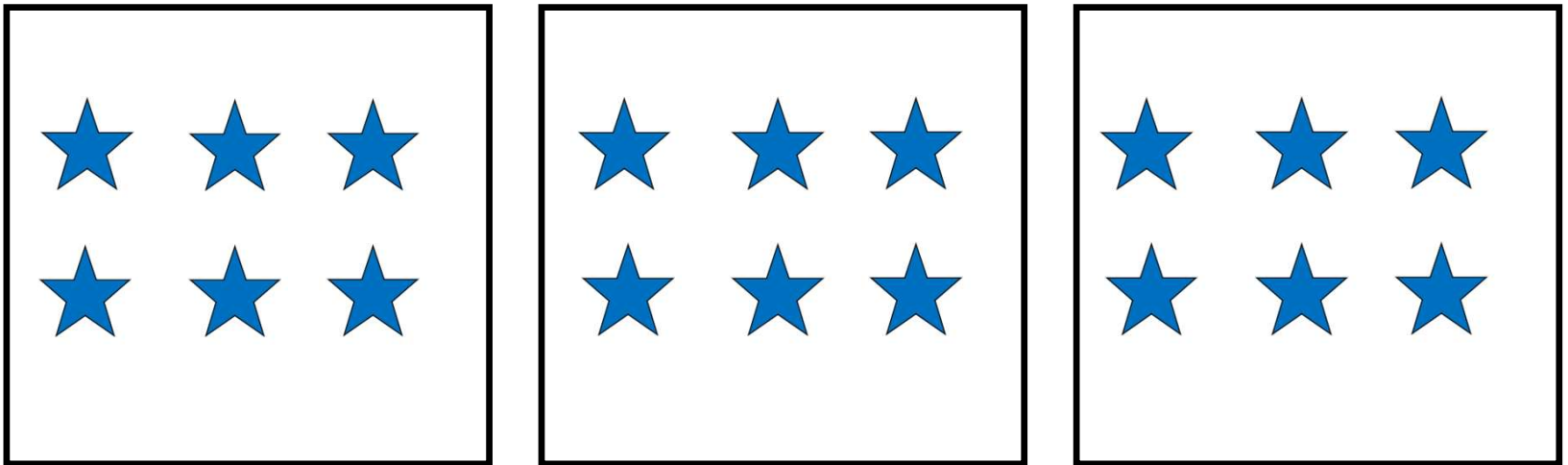
I'll start by moving one star to each group.





**During today's lesson you are going to divide objects into equal groups. Let's do one together!**

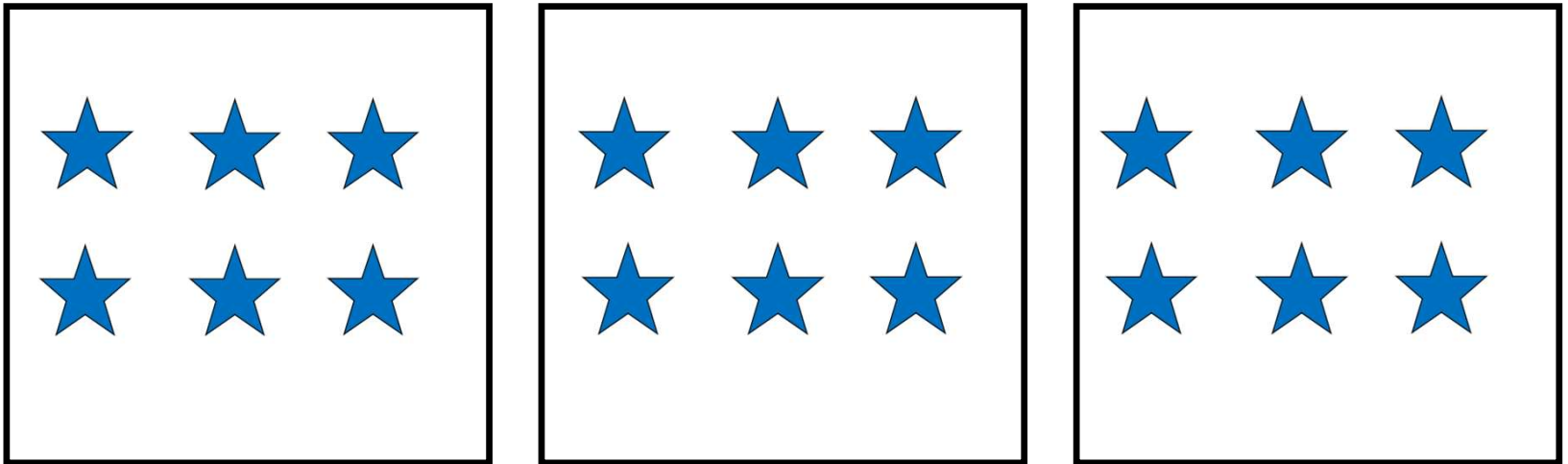
I'll continue adding stars until each group equally, until all stars are shared.





During today's lesson you are going to divide objects into equal groups. Let's do one together!

Each box has 6 stars. I'm going to record a matching division equation.



$$\begin{array}{c} \underline{18} \div \underline{3} = \underline{6} \\ \text{(total \# of objects)} \quad \text{(\# of equal groups)} \quad \text{(\# of objects in a group)} \end{array}$$

# CHECK - IN

- What did you notice?
- Can you make a connection to anything else you already know? How?
- Do you have any questions?



A decorative border surrounds the central text, consisting of a sequence of blue stars and red circles. The top and bottom borders are composed of alternating stars and circles. The left and right borders are composed of a single star followed by a single circle, repeating down the side.

# STARS AND CIRCLES

## ACTIVITY



# MATERIALS NEEDED

## Each Student Needs:

Glue

Scissors

Math Journal

Star and Circle Cut-Outs

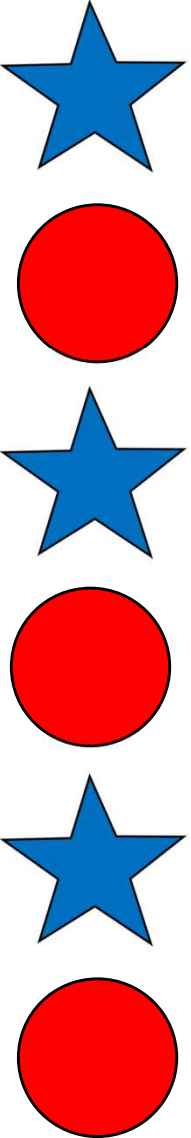
Pencil



# YOUR ASSIGNMENT

Use the star and circle cut-outs to solve each problem.

Record your findings with a division equation.



# DIRECTIONS

**STEP 1**  
Cut out the shapes.

**STEP 2**  
Read the problem and sort the correct shapes into the boxes to create equal groups.

**STEP 3**  
Glue the shape cut-outs into the boxes.

**STEP 4**  
Record how many shapes are in a box.

**STEP 5**  
Record the matching division equation.

**STEP 6**  
Check your answers.



IT'S YOUR TURN

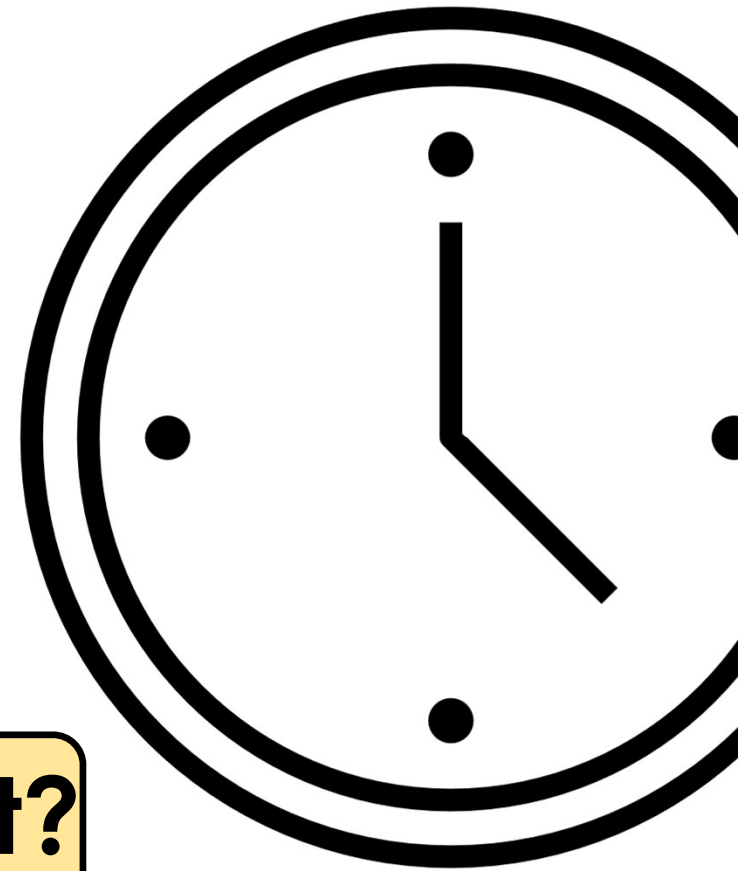


Now It's **“YOUR TURN”** to Solve



**Don't forget to show your work!**

# Time to **Discuss** and **Check** Your Answers



**How did you solve it?**

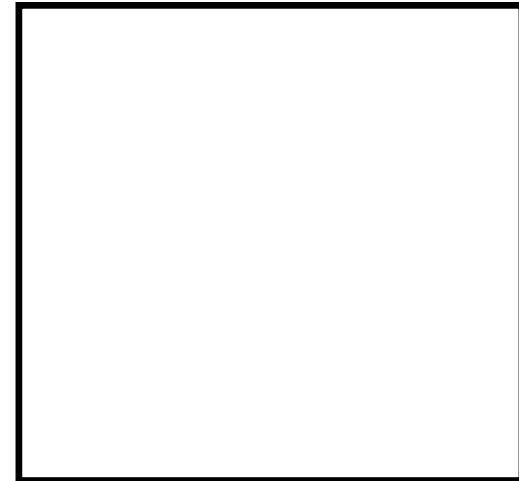
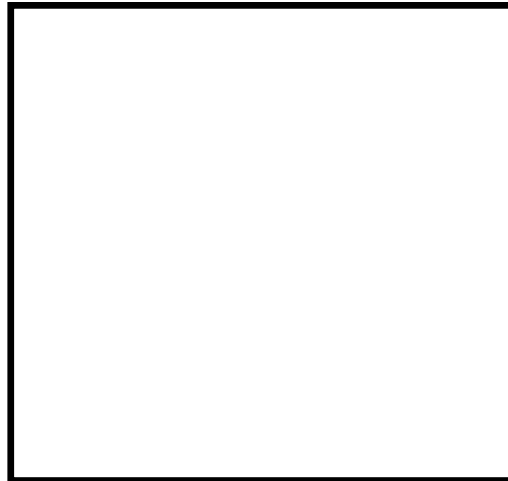
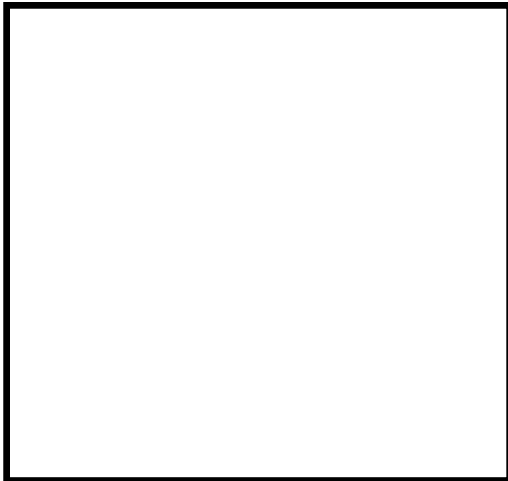


## Task #1

YOUR TURN

## Solve and Fill in the Blanks

12 circles are divided into 3 equal groups.  
How many circles belong in each group?



How many shapes in each box?

**Each box has \_\_\_\_\_ circles.**

Write a matching equation



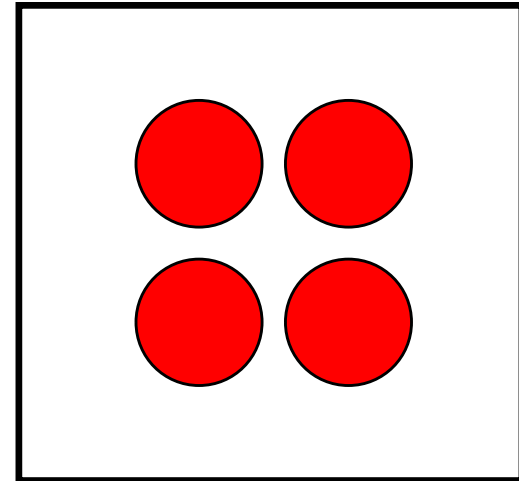
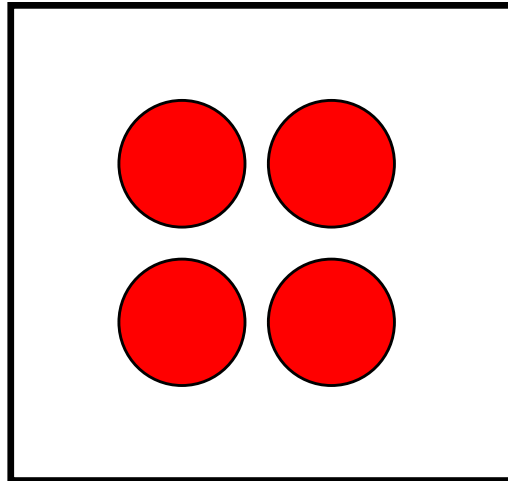
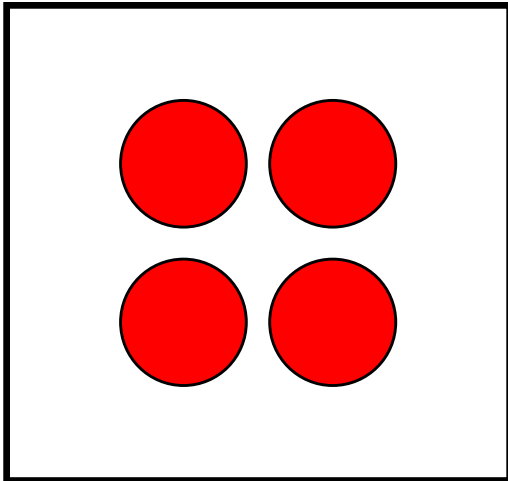


## Task #1

YOUR TURN

## Solve and Fill in the Blanks

12 circles are divided into 3 equal groups.  
How many circles belong in each group?



How many shapes in each box?

Each box has 4 circles.

Write a matching equation

$$12 \div 3 = 4$$



## Task #2

YOUR TURN

## Solve and Fill in the Blanks

36 circles are divided into 6 equal groups.  
How many circles belong in each group?

How many shapes in each box?

**Each box has \_\_\_\_\_ circles.**

Write a matching equation

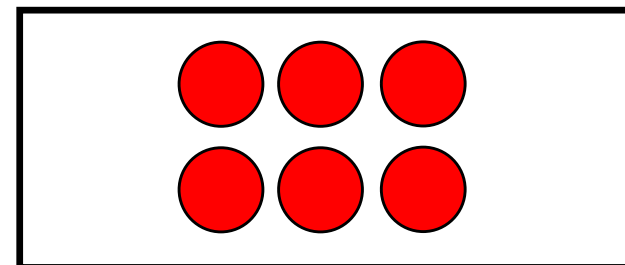
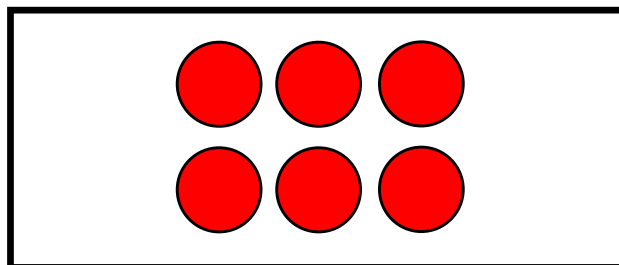
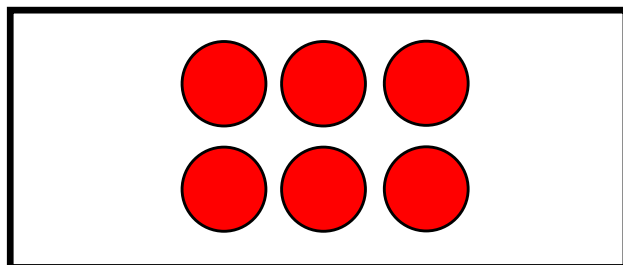
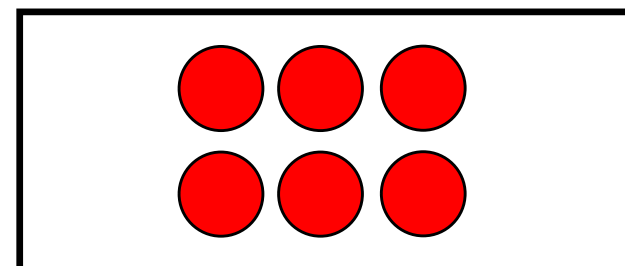
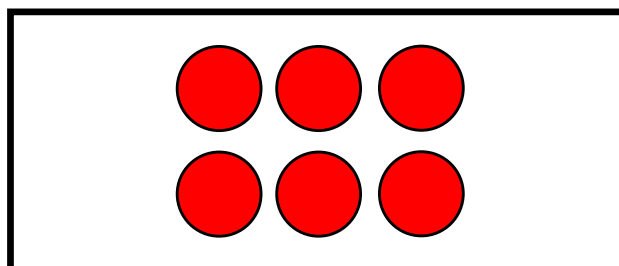
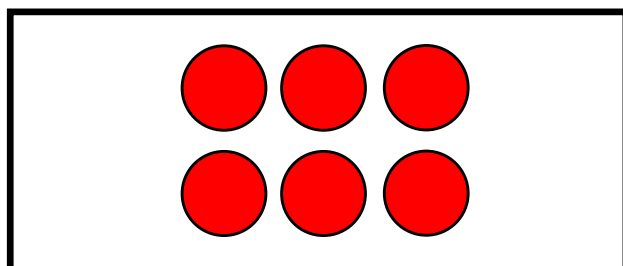


## Task #2

YOUR TURN

## Solve and Fill in the Blanks

36 circles are divided into 6 equal groups.  
How many circles belong in each group?



How many shapes in each box?

Each box has 6 circles.

Write a matching equation

$$36 \div 6 = 6$$



## Task #3

YOUR TURN

## Solve and Fill in the Blanks

20 stars are divided into four equal groups.  
How many stars belong in each group?

How many shapes in each box?

**Each box has \_\_\_\_\_ stars.**

Write a matching equation

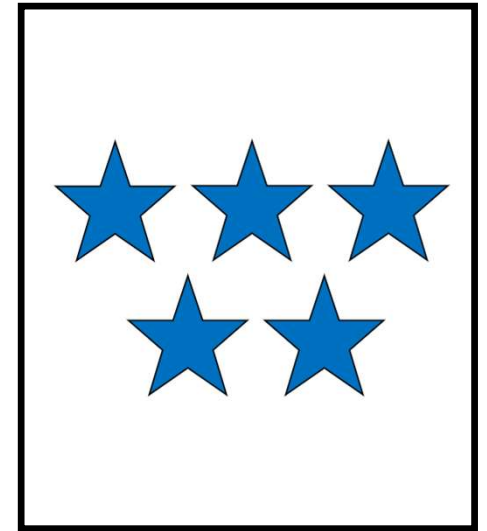
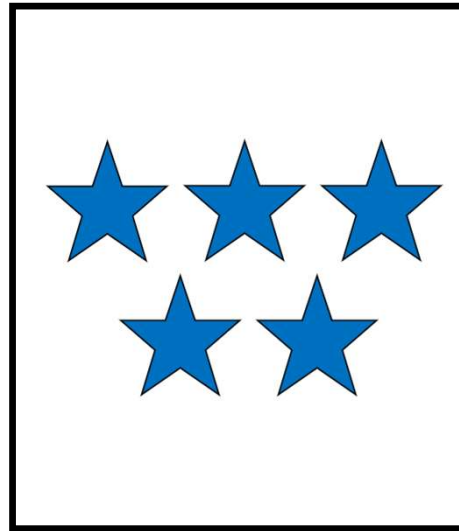
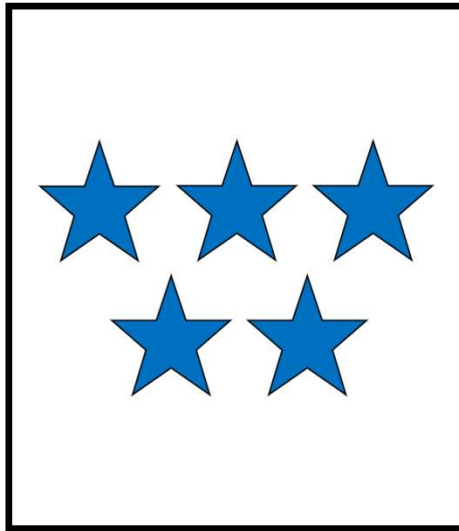
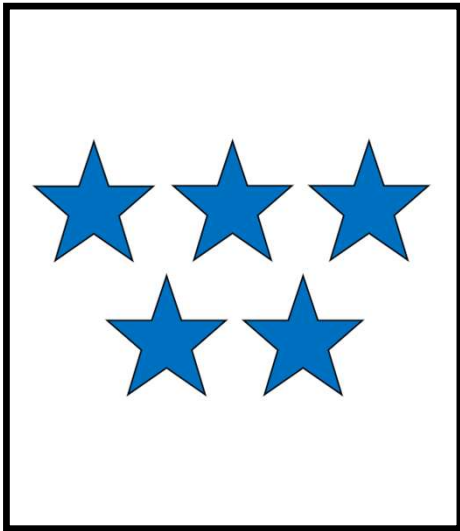


## Task #3

YOUR TURN

## Solve and Fill in the Blanks

20 stars are divided into four equal groups.  
How many stars belong in each group?



How many shapes in each box?

Each box has 5 stars.

Write a matching equation

$$20 \div 4 = 5$$



## Task #4

YOUR TURN

## Solve and Fill in the Blanks

14 stars are divided into two equal groups.  
How many stars belong in each group?



How many shapes in each box?

**Each box has \_\_\_\_\_ stars.**

Write a matching equation



## Task #4

YOUR TURN

## Solve and Fill in the Blanks

14 stars are divided into two equal groups.  
How many stars belong in each group?



How many shapes in each box?

Each box has 7 stars.

Write a matching equation

$$14 \div 2 = 7$$



## Task #5

YOUR TURN

## Solve and Fill in the Blanks

27 circles are divided into 3 equal groups.  
How many circles belong in each group?

How many shapes in each box?

**Each box has \_\_\_\_\_ circles.**

Write a matching equation



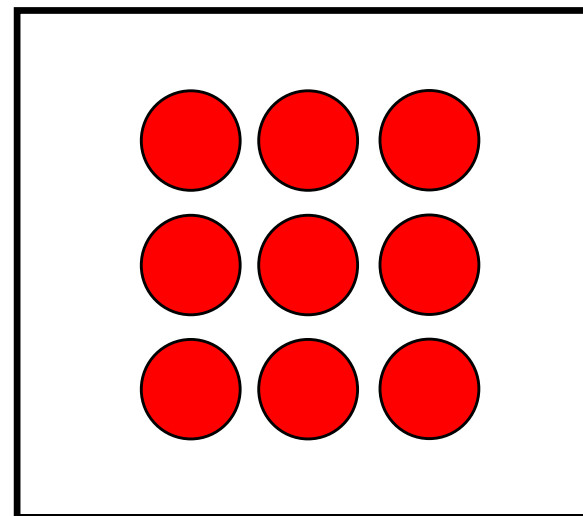
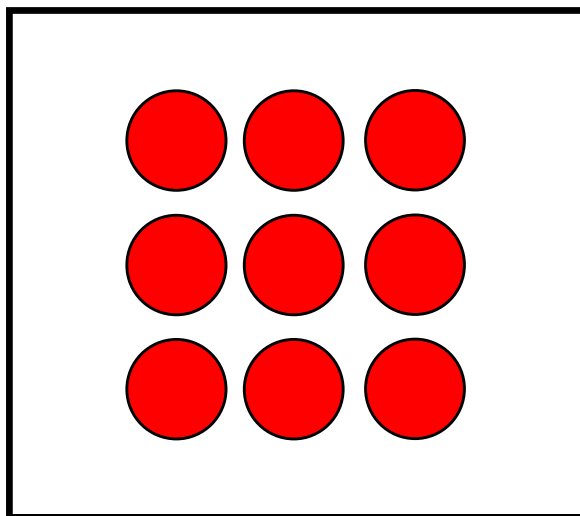
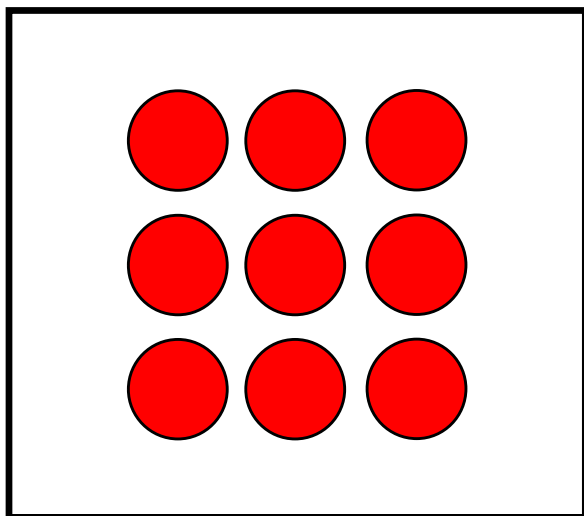


## Task #5

YOUR TURN

## Solve and Fill in the Blanks

27 circles are divided into 3 equal groups.  
How many circles belong in each group?



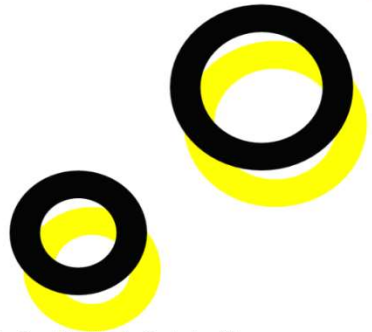
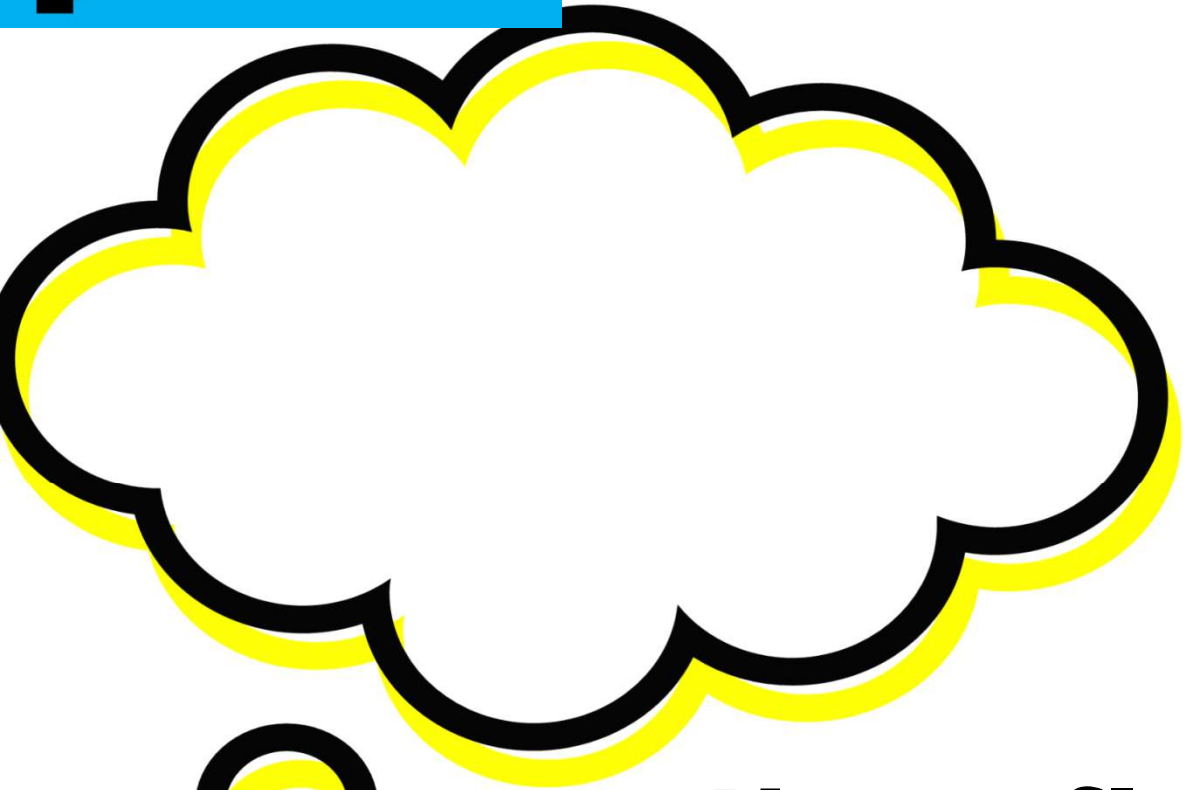
How many shapes in each box?

Each box has 9 circles.

Write a matching equation

$$27 \div 3 = 9$$

 **Let's Reflect**



**It's reflection time!**