



SAVVY
LEARNING

Math Assessment

If you see this icon, you may use paper and pencil to solve the problem.



5

18

20

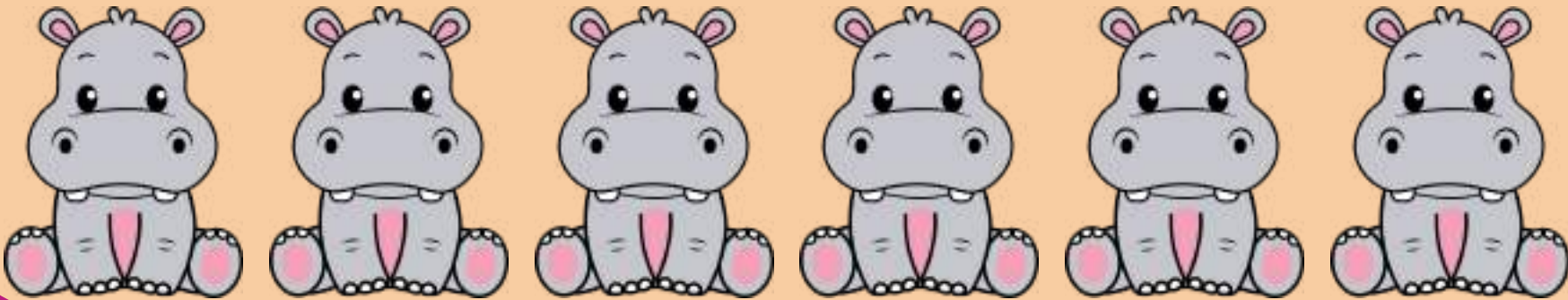
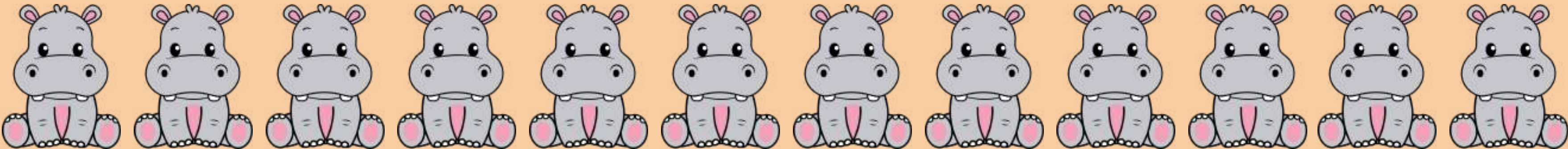
10

12

7

19

Counting up to 20

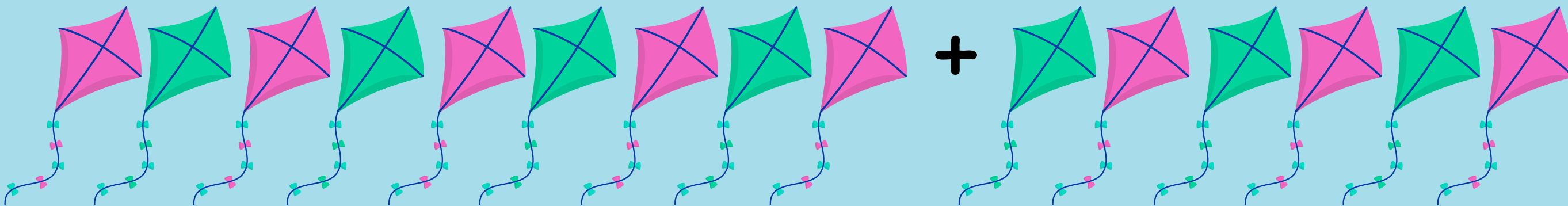




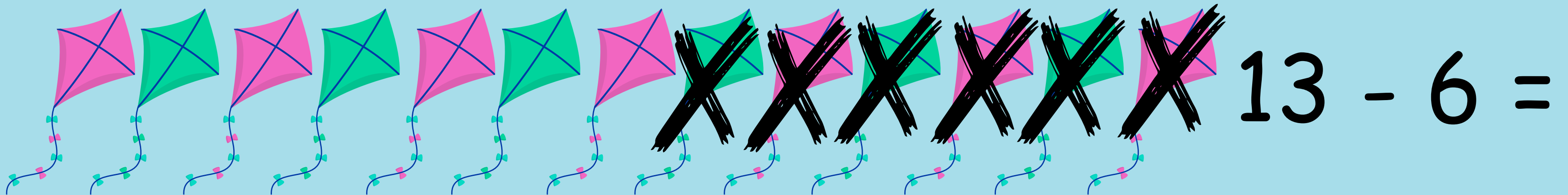
$$3 + 5 =$$



$$6 + 4 =$$



$$9 + 6 =$$

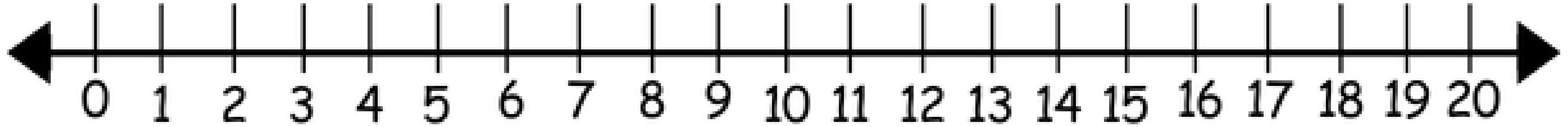


$$3 + 4 =$$

$$3 + 3 =$$

$$7 + 3 =$$





$$12 + 6 =$$

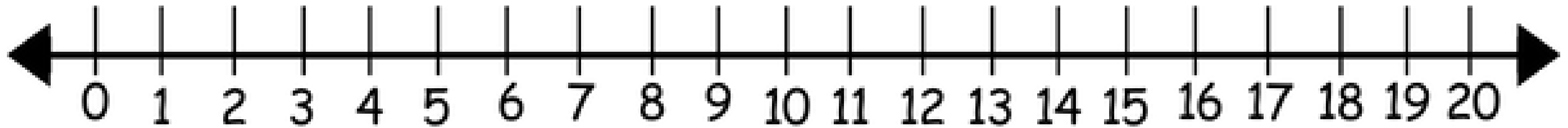
$$13 + 4 =$$

$$15 + 5 =$$



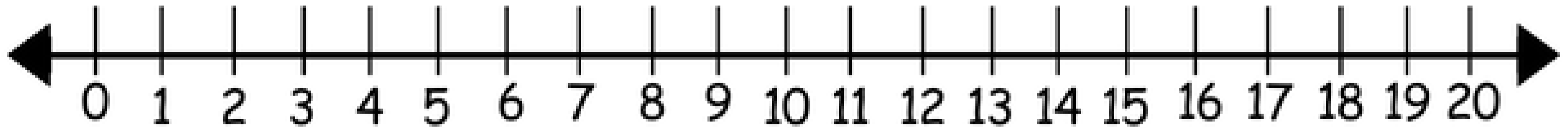


Lin had 6 suckers. His sister gave him 13 more.
How many suckers does Lin have now?





Lin had 19 suckers. He ate 4 of them. How many suckers does Lin have left?





- $25 = 2 \text{ tens } 5 \text{ ones}$
- $46 = _ \text{ tens } _ \text{ ones}$
- $13 = _ \text{ tens } _ \text{ ones}$
- $61 = _ \text{ tens } _ \text{ ones}$
- $90 = _ \text{ tens } _ \text{ ones}$

less than $<$ greater than $>$ equal to $=$

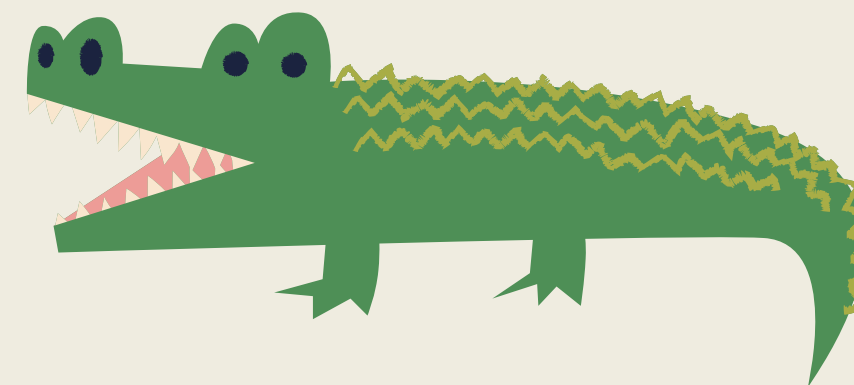
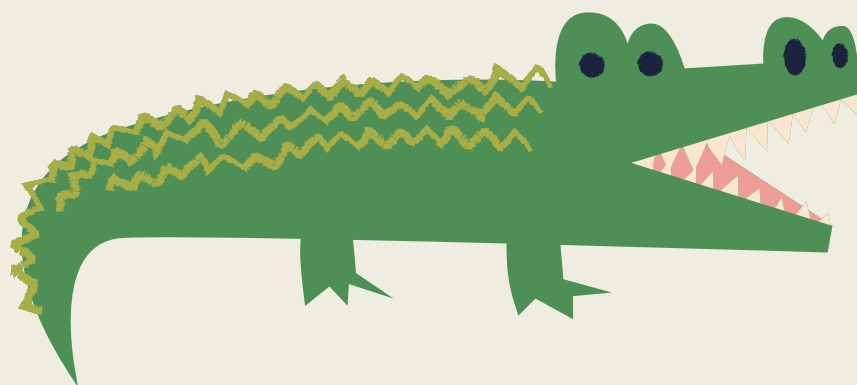
38 is less than 40.

35 is _____ 61.

50 is _____ 15

105 is _____ 105

120 is _____ 75



$$25 + 10 =$$

$$48 + 10 =$$

$$25 - 10 =$$

$$48 - 10 =$$





$$40 + 12 =$$

$$63 + 20 =$$

$$45 - 20 =$$

$$97 - 30 =$$

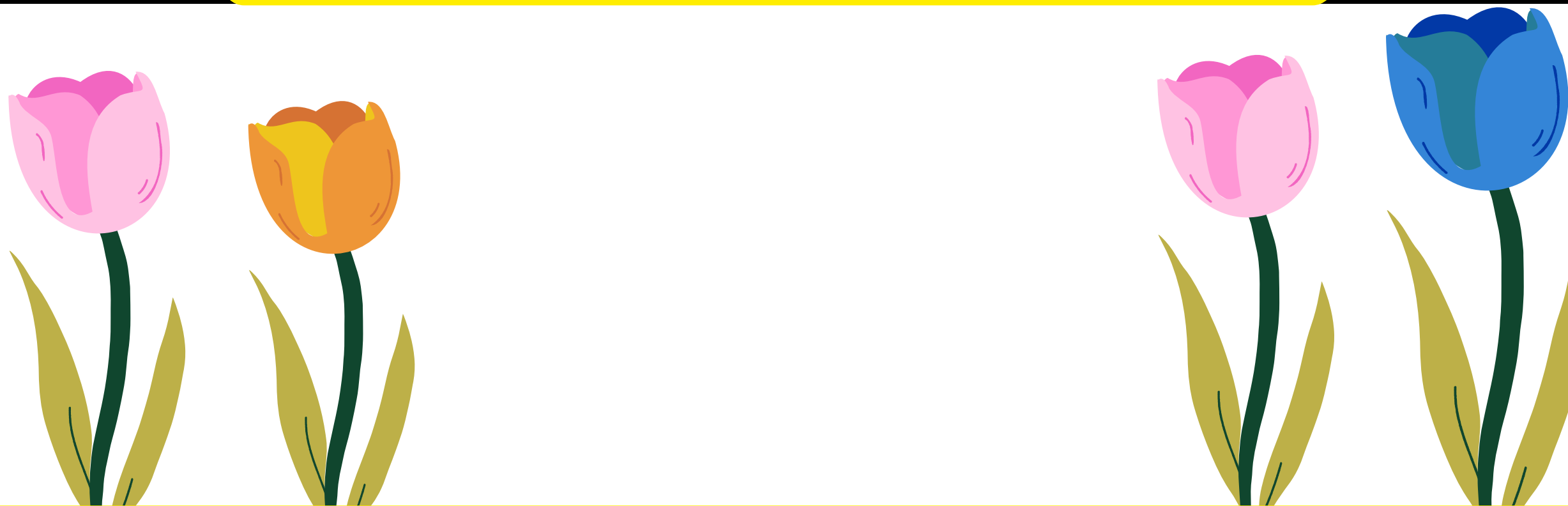


$$80 + 19 =$$

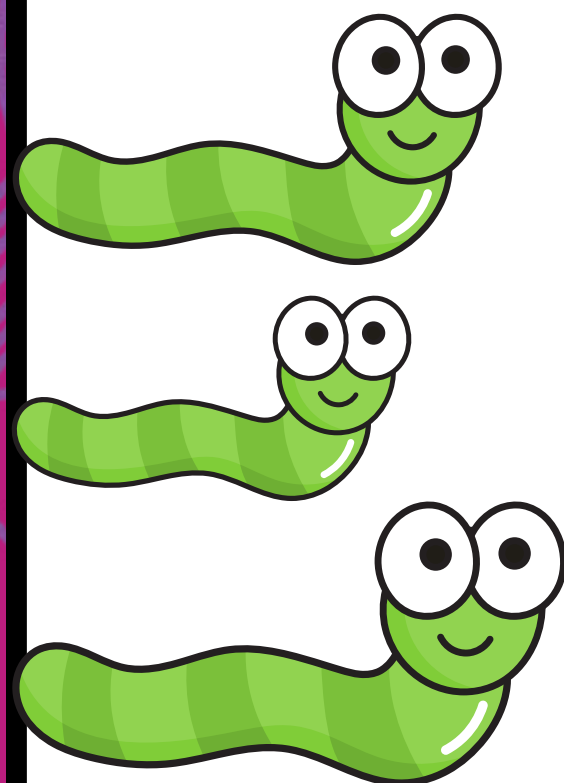
$$41 + 57 =$$

$$62 + 37 =$$

The pink flower is taller than the orange flower.



The blue flower is (taller or shorter) than the orange flower.

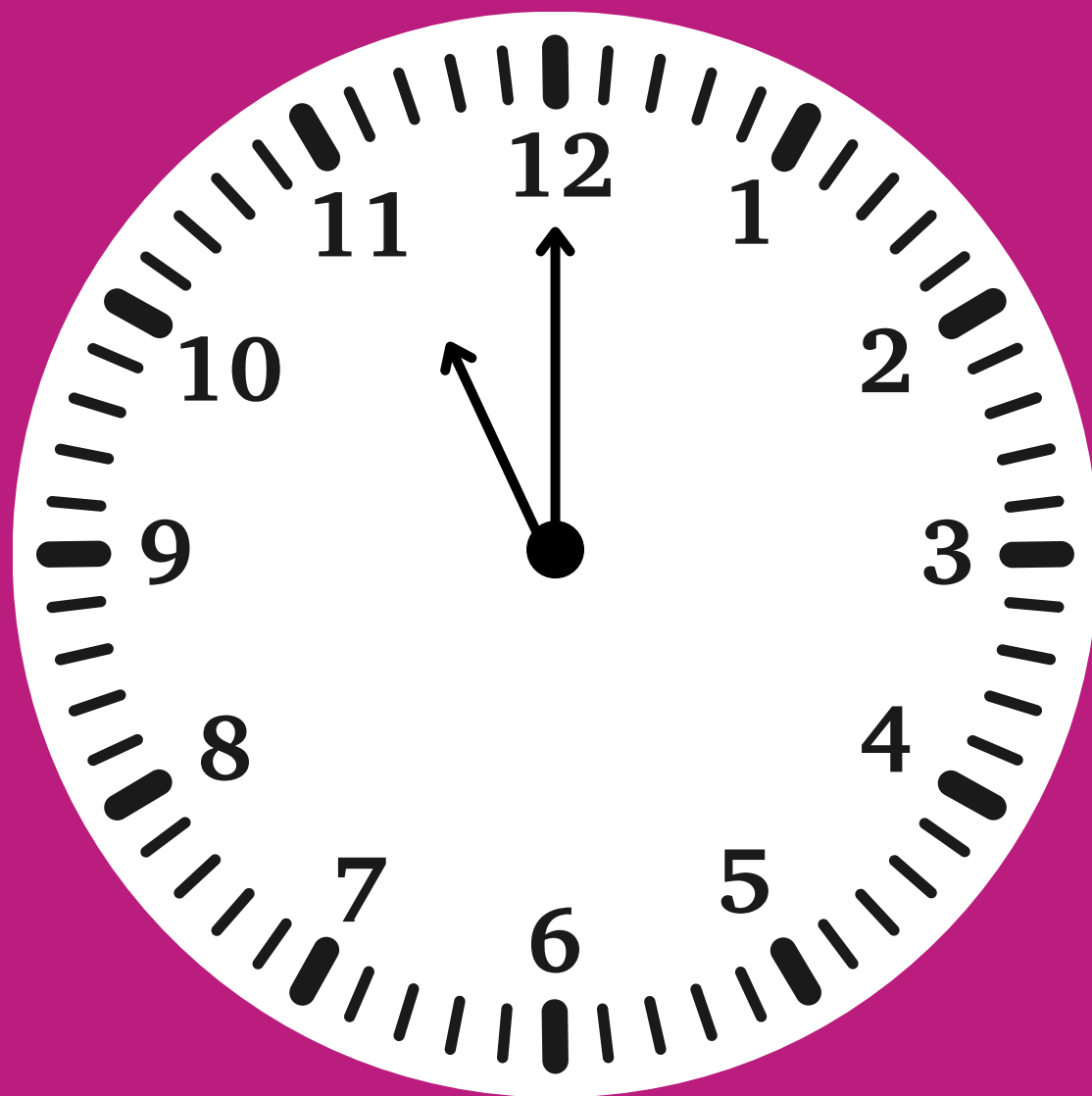


Put the worms in order from shortest to longest.

Clock #1



Clock #2



Clock #3



$$5 + 4 = \underline{\hspace{2cm}}$$

$$8 + 8 = \underline{\hspace{2cm}}$$

$$6 + 7 = \underline{\hspace{2cm}}$$

$$11 - 6 = \underline{\hspace{2cm}}$$

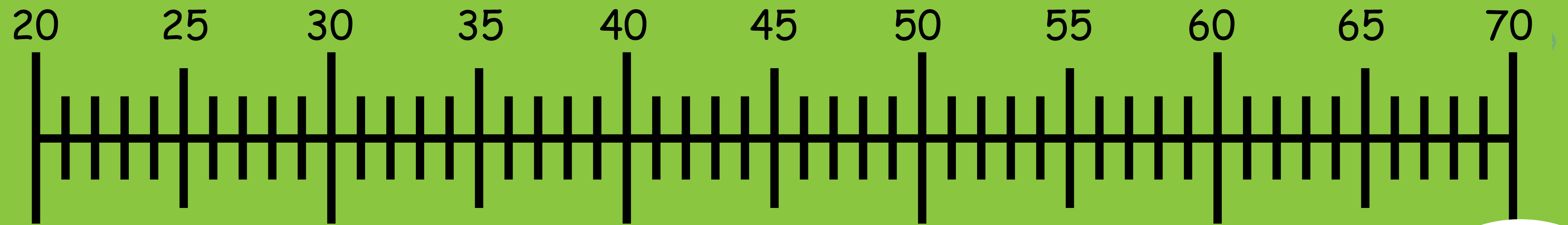
$$13 - 7 = \underline{\hspace{2cm}}$$

$$18 - 9 = \underline{\hspace{2cm}}$$



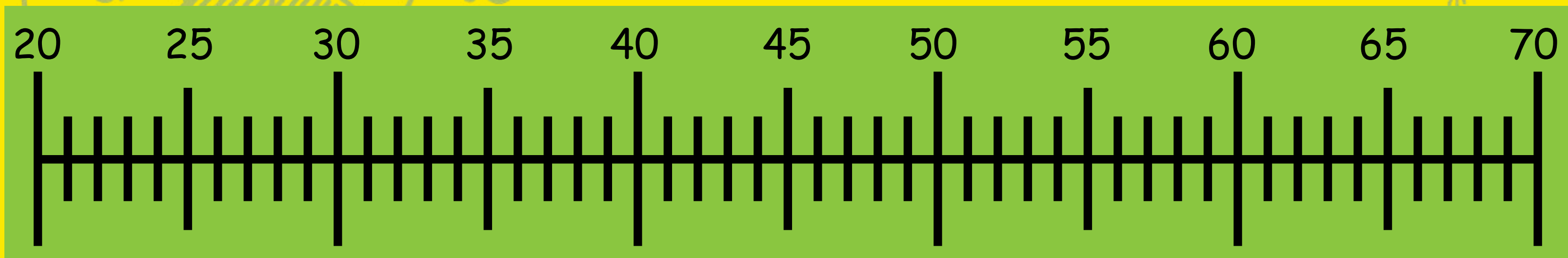
$$46 + 23 = \underline{\hspace{2cm}}$$

$$\begin{array}{r} 68 - 37 = \underline{\hspace{2cm}} \\ 47 - 24 = \underline{\hspace{2cm}} \end{array}$$



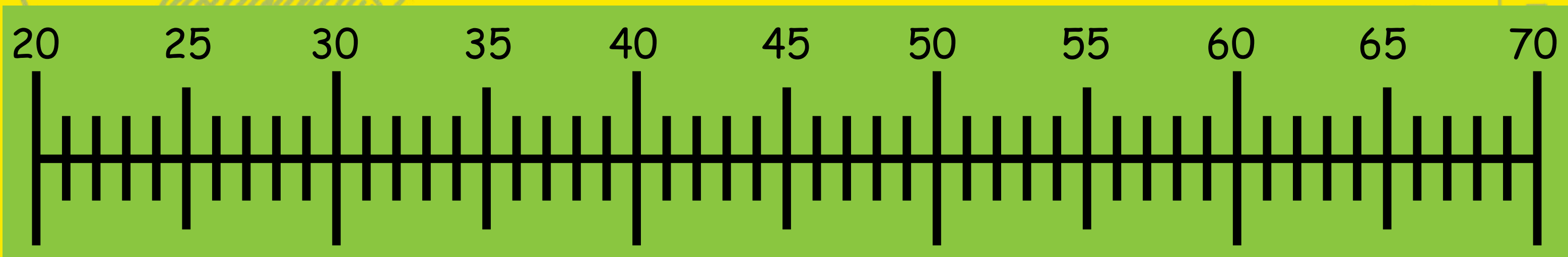


The bookstore had 26 boxes of books and received 15 more boxes. How many total boxes do they have now?





The bookstore has 44 boxes. They decided to start opening some of the boxes. They opened 22 boxes. How many boxes are still closed?





325

skip count by 5's

360, _____, _____, _____, _____, _____, _____, _____, 400

skip count by 10's

540, _____, _____, _____, _____, _____, 600

skip count by 100's

125, _____, _____, _____, 525

$$391 + 10 =$$

$$204 - 10 =$$

$$176 - 100 =$$



$$\begin{array}{r} 47 \\ +32 \\ \hline \end{array}$$

$$\begin{array}{r} 89 \\ -68 \\ \hline \end{array}$$

$$\begin{array}{r} 89 \\ -34 \\ \hline \end{array}$$



Jason collected 23 shells in the morning and 13 shells in the afternoon. 14 shells were broken. How many were NOT broken?



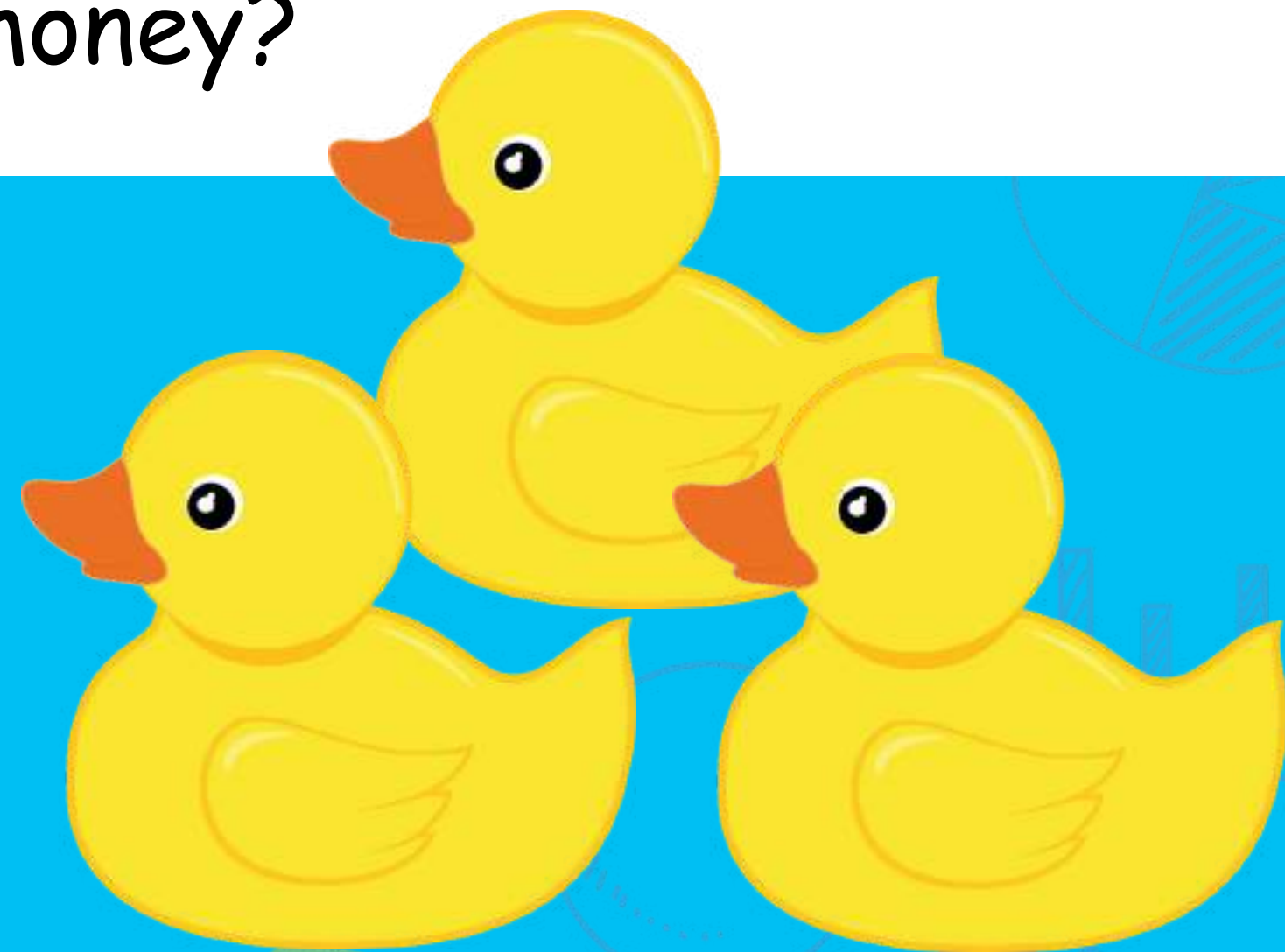


What is the name of each coin?
What is the value of each coin?
How much money is there in total?





Maria has 98 cents. She wants to buy three rubber ducks. Each rubber duck costs 32 cents. Does she have enough money?



Addition with Regrouping

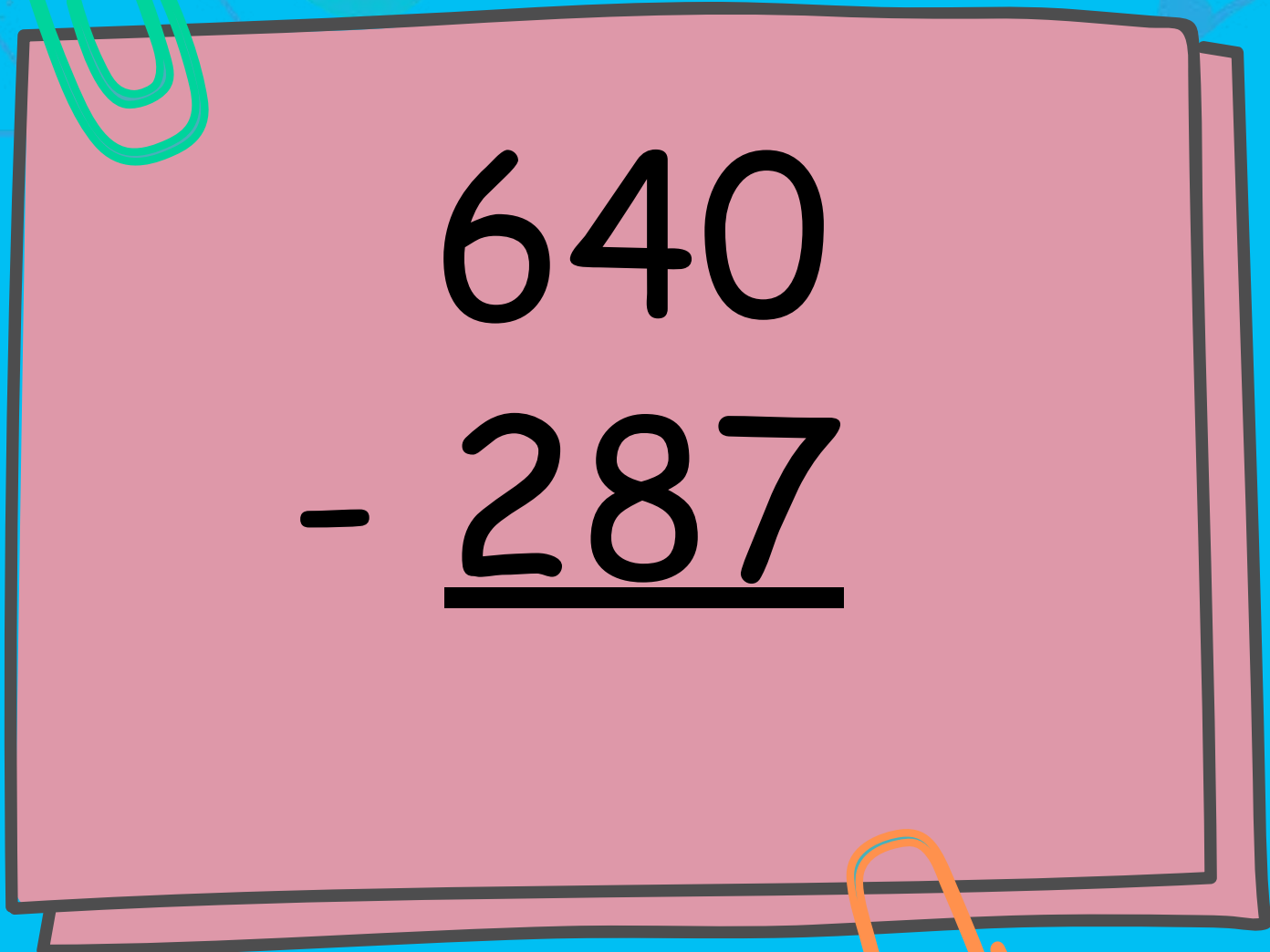


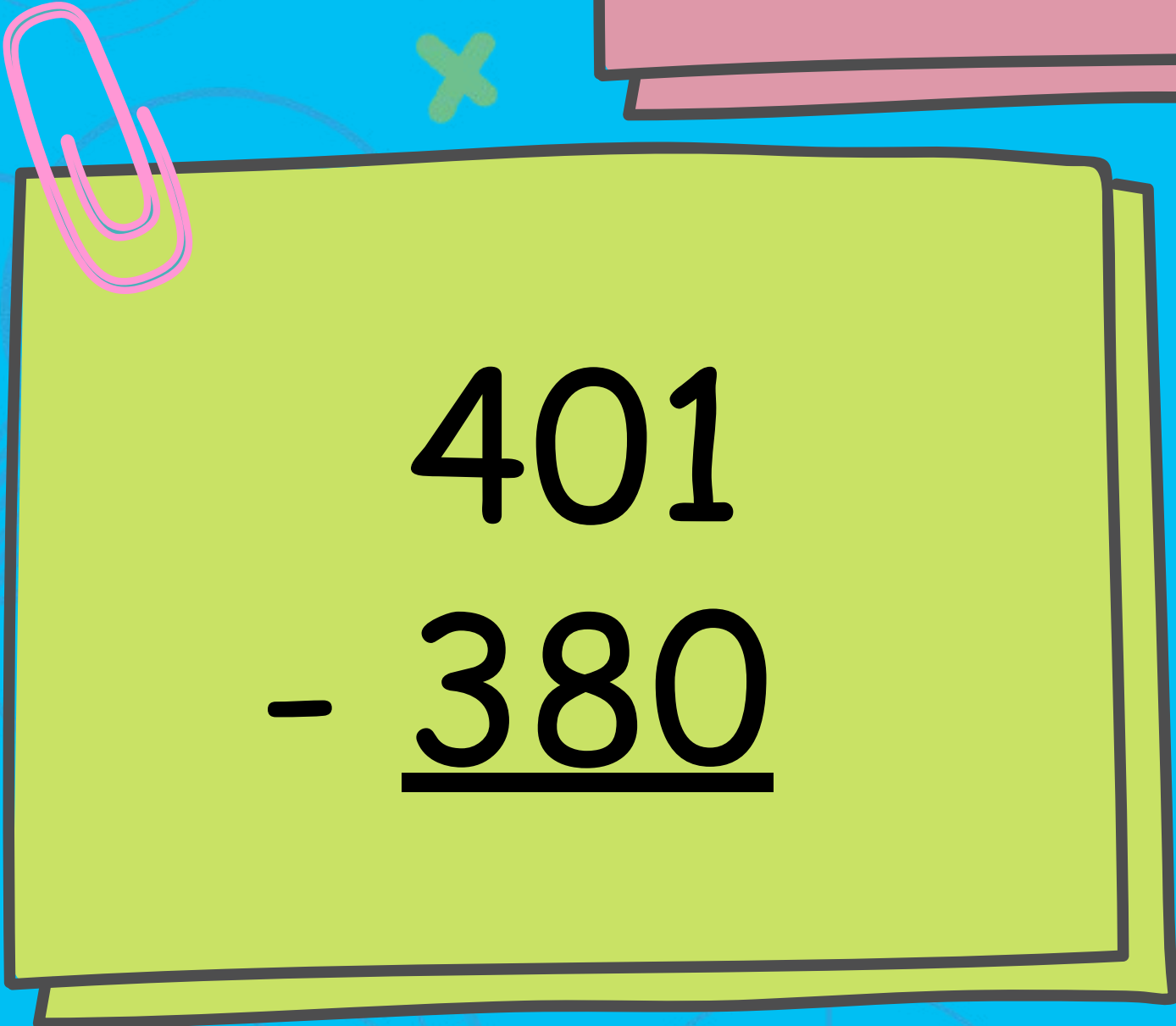
$$\begin{array}{r} 457 \\ + 386 \\ \hline \end{array}$$

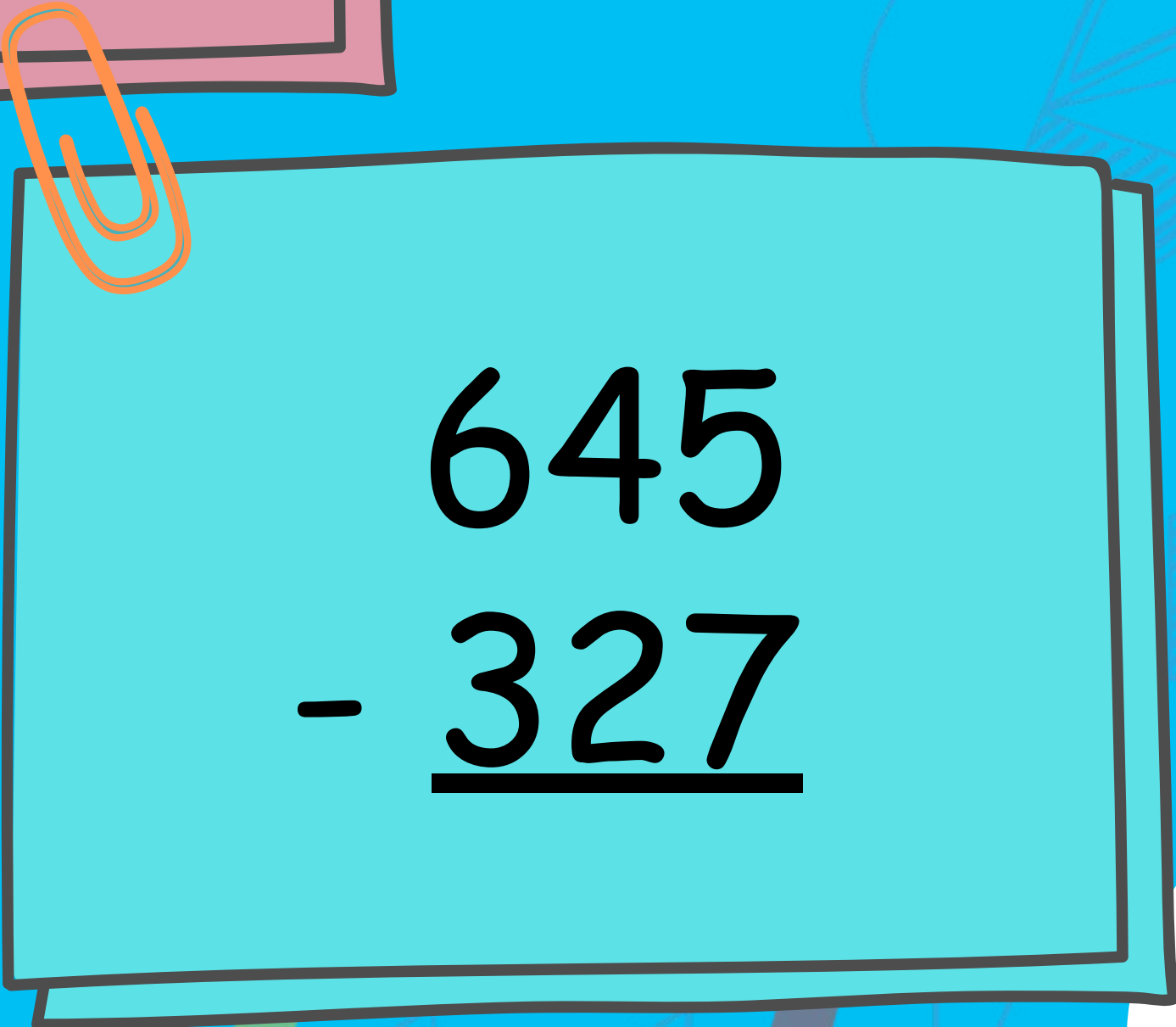
$$\begin{array}{r} 429 \\ + 238 \\ \hline \end{array}$$

$$\begin{array}{r} 115 \\ + 139 \\ \hline \end{array}$$

Subtraction with Regrouping


$$\begin{array}{r} 640 \\ - 287 \\ \hline \end{array}$$


$$\begin{array}{r} 401 \\ - 380 \\ \hline \end{array}$$


$$\begin{array}{r} 645 \\ - 327 \\ \hline \end{array}$$



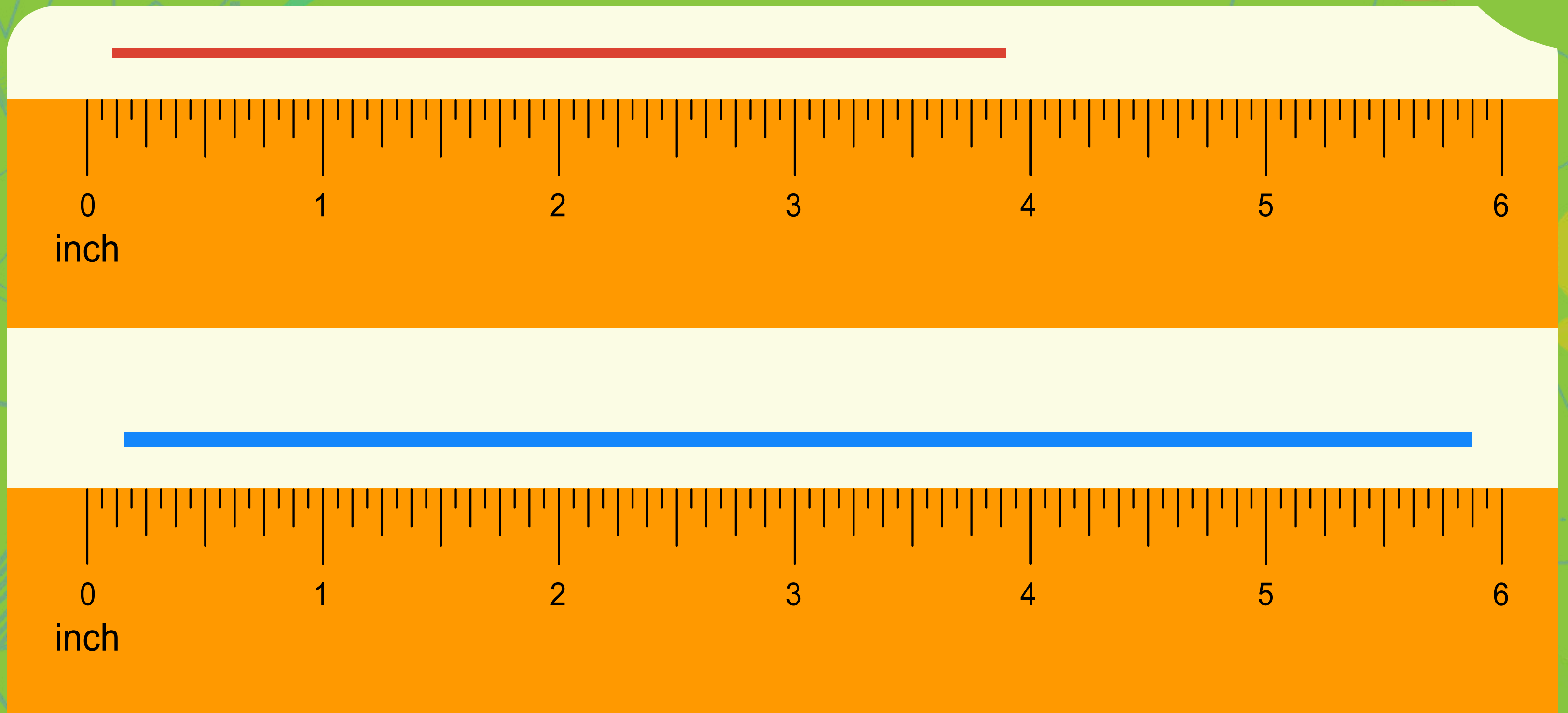
While shopping, Tiffany bought 30 blue candies and 34 pink candies. If she gave her mother 29 of them, how many candies did Tiffany end up with?





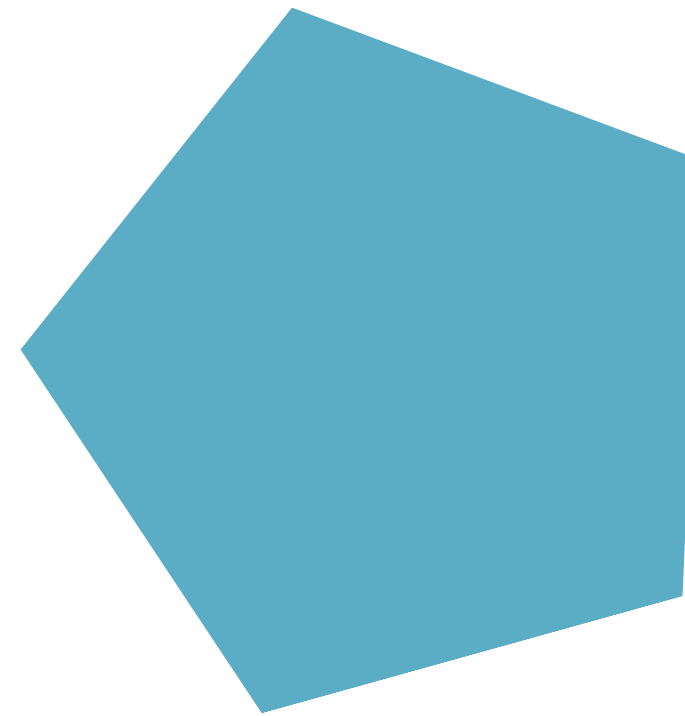
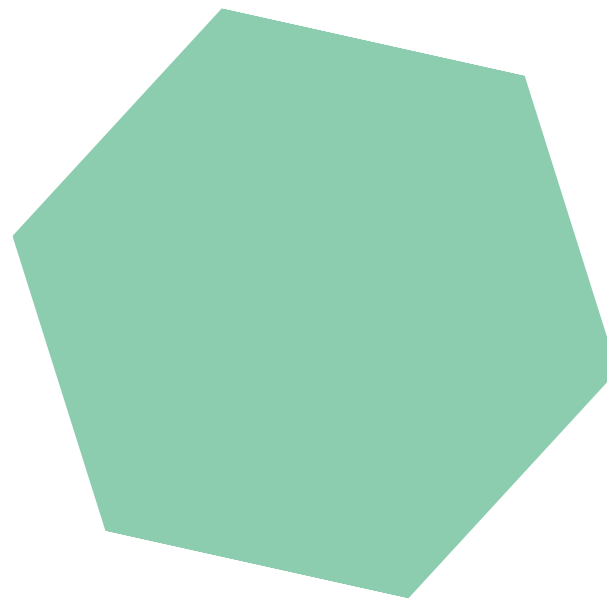
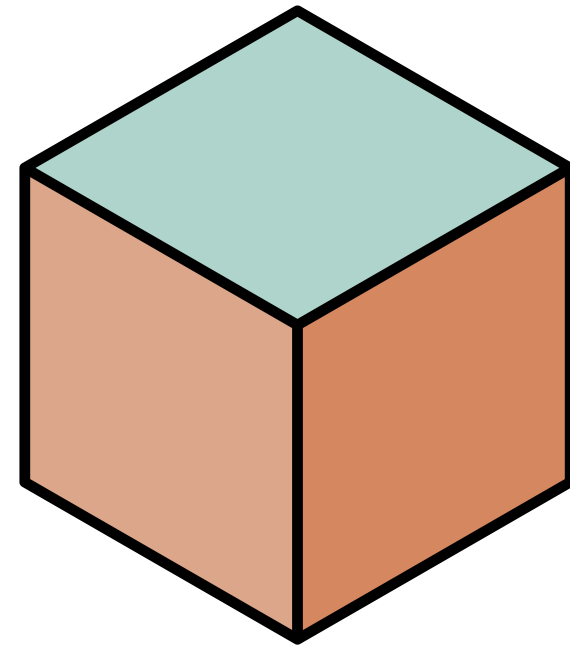
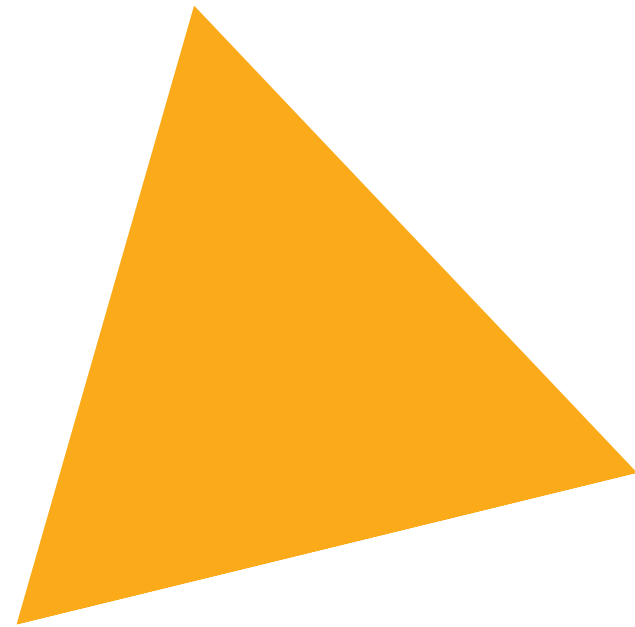
$$34 + 65 + 25 + 16 =$$

Measusrement

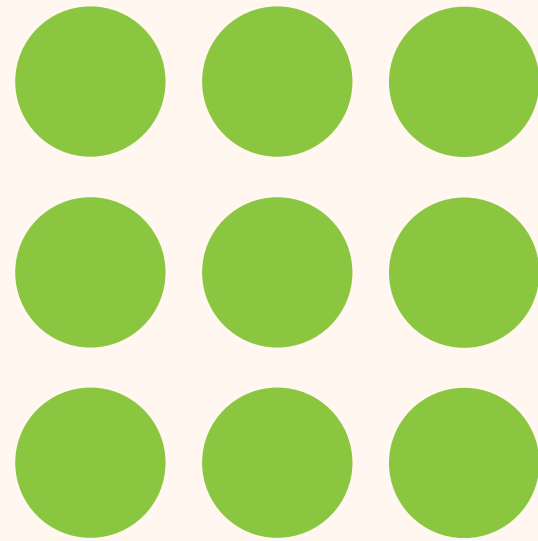


How much longer is the blue line than the red line?

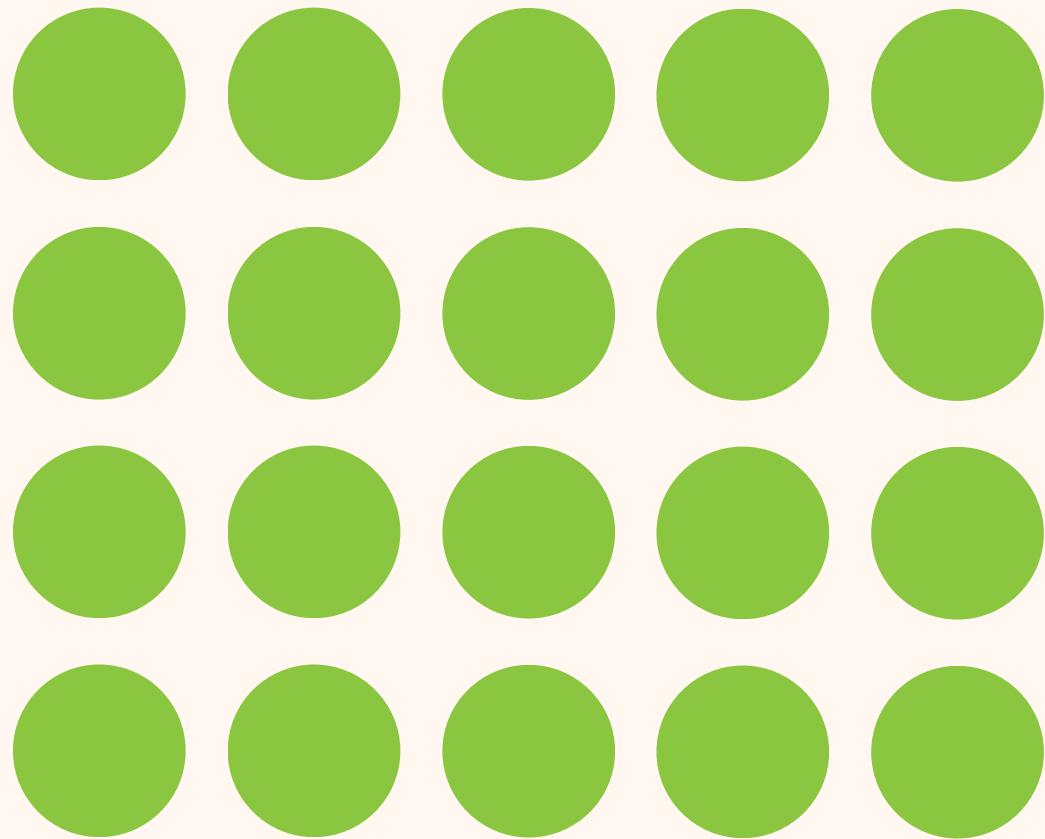
pentagon, hexagon, cube, triangle, rhombus



Arrays



$$3 + 3 + 3$$





1. Three friends have 12 cookies. They decide to split the cookies up evenly. How many cookies will each friend get?

2. Which expression below matches the word problem?

$$3 \times 12$$

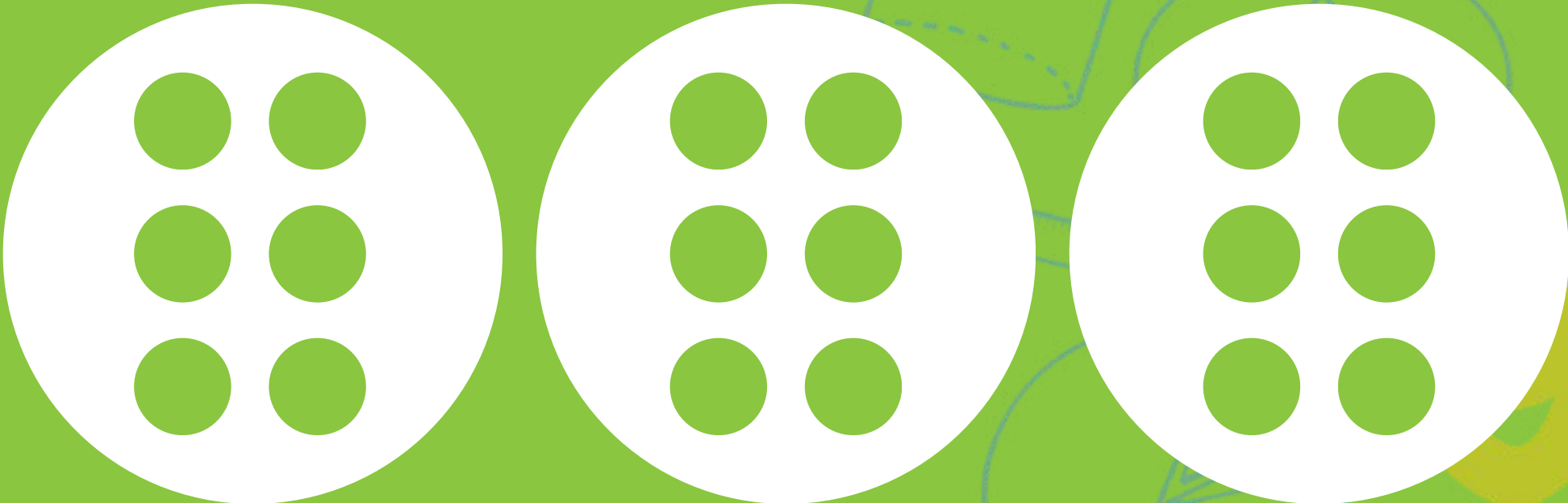
$$12 \div 3$$

$$3 \times 4$$

$$12 \div 4$$



$3 \times 6 = \underline{\hspace{2cm}}$



$18 \div 3 = \underline{\hspace{2cm}}$





Solve for the missing numbers.

$$3 \times \underline{\hspace{2cm}} = 9$$

$$10 \times \underline{\hspace{2cm}} = 80$$

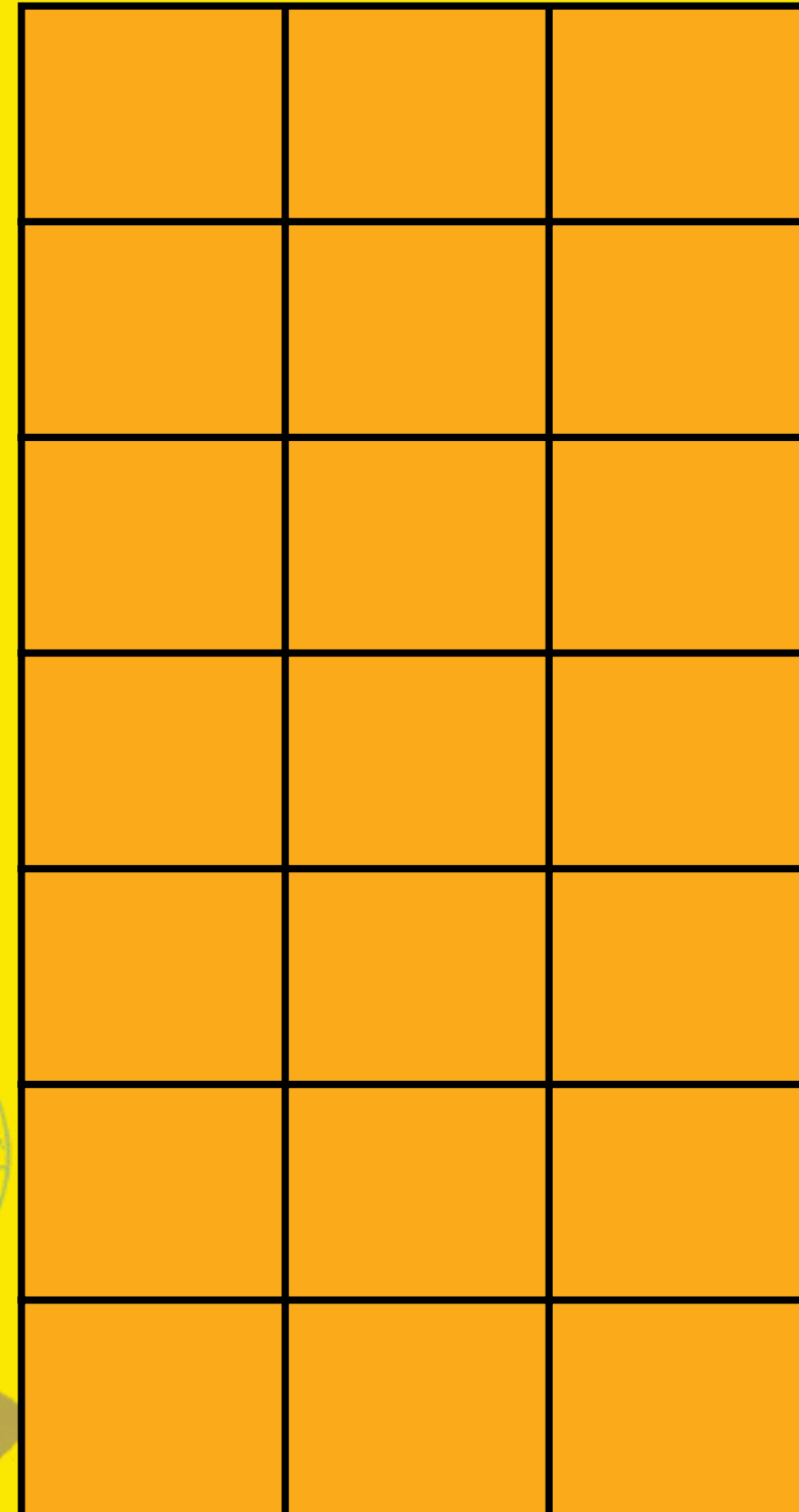
$$12 \div \underline{\hspace{2cm}} = 3$$

$$14 \div \underline{\hspace{2cm}} = 2$$



side width

side length



1. What is the length of this rectangle in units?
2. What is the width of this rectangle in units?
3. What is the total area of this rectangle in units?



What is the area of the rectangle?

9 in.

2 in.



Area

3 ft.

3 ft.

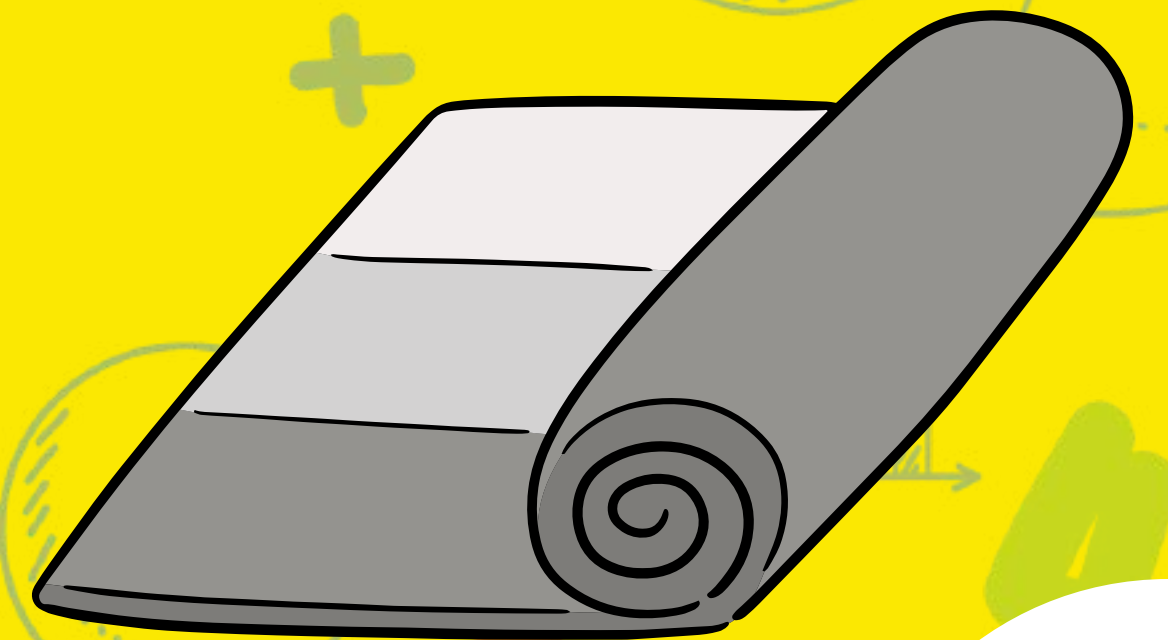
closet

2 ft.

hallway

6 ft.

My grandma is getting new carpet for her closet and hallway. Her closet measures 3 feet by 3 feet. Her hallway measures 2 ft. by 6 ft. How much carpet will she need to order to cover the total area of the closet and hallway?



Round to the
nearest ten.

- 62
- 138
- 4,309

Round to the
nearest hundred.

- 172
- 729
- 3,820

$$\begin{array}{r} 476 \\ +351 \\ \hline \end{array}$$

$$\begin{array}{r} 329 \\ -186 \\ \hline \end{array}$$

$$\begin{array}{r} 604 \\ -534 \\ \hline \end{array}$$





The perimeter of the pink shape is 14 inches.
What is the perimeter of the blue shape?





The floor of a dog kennel has a perimeter of 20 feet.
The length of the kennel is 6 feet. How wide is the kennel?



6 feet

? feet

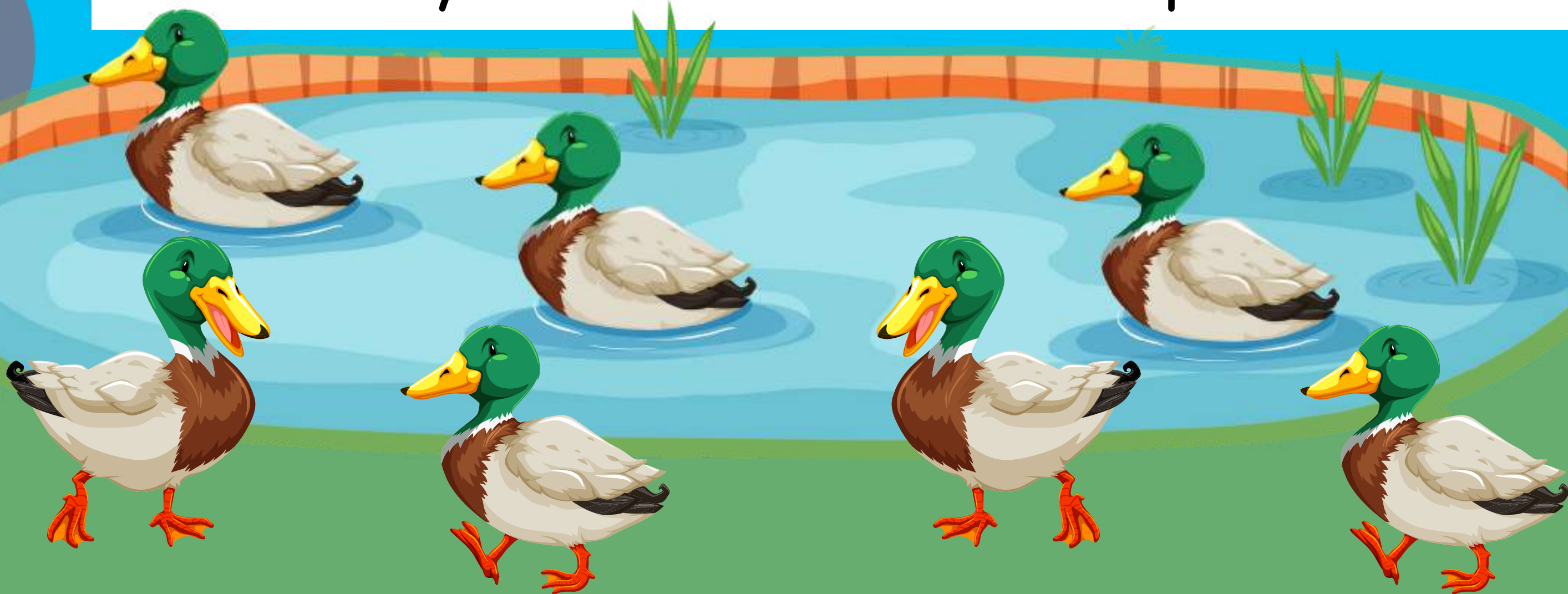
6 feet

Perimeter= 20 feet

? feet

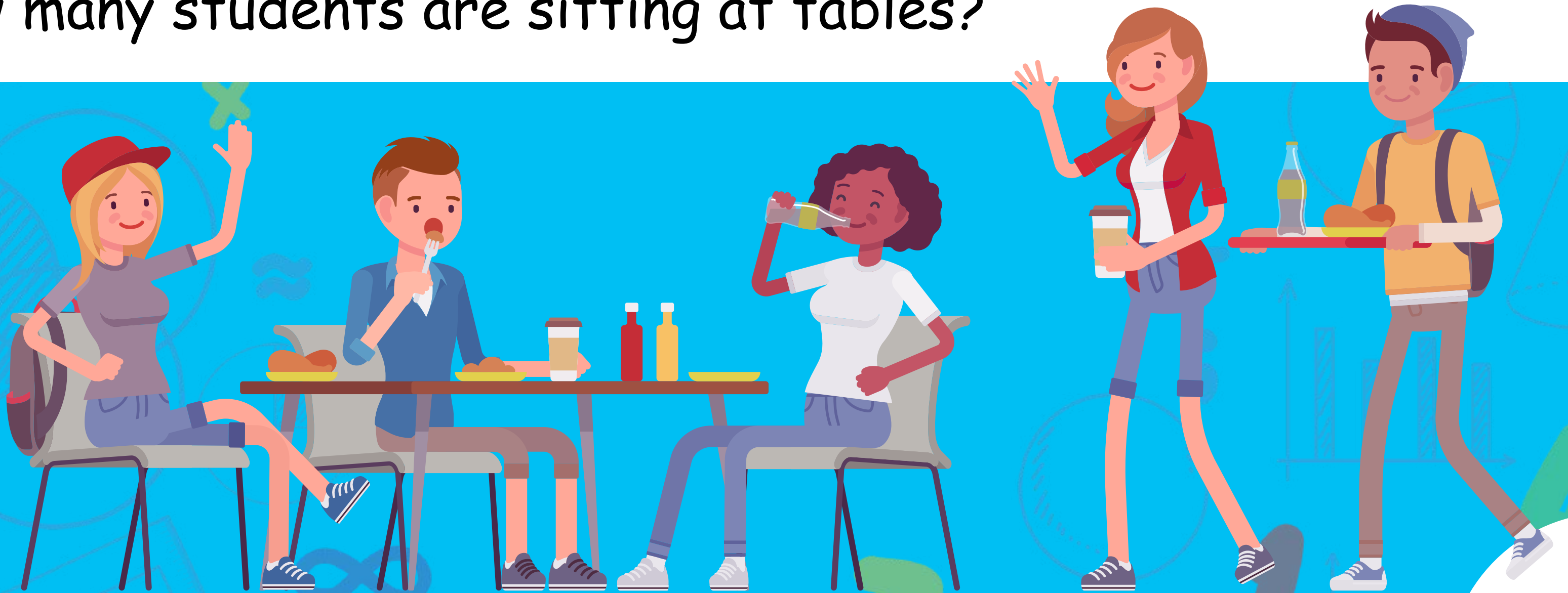


There were 125 ducks on the pond. 105 ducks joined them. After a couple of hours, 135 ducks flew away. How many ducks are now on the pond?

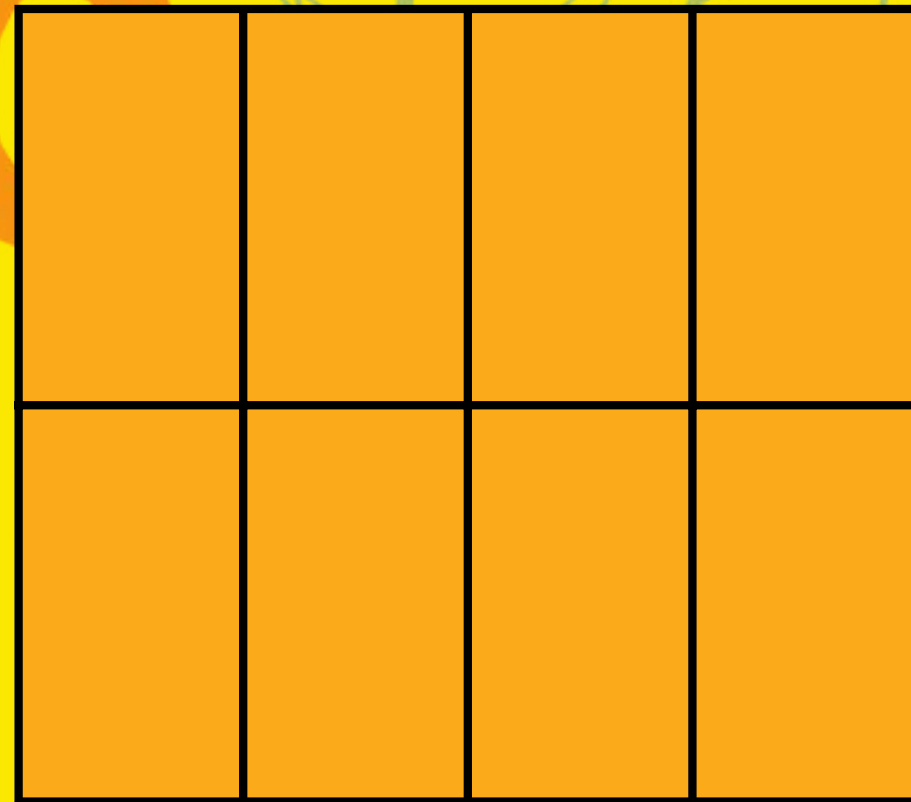
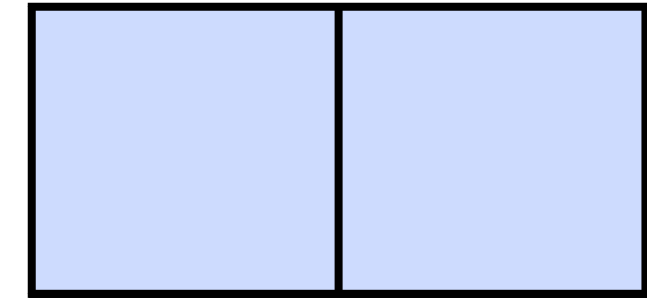




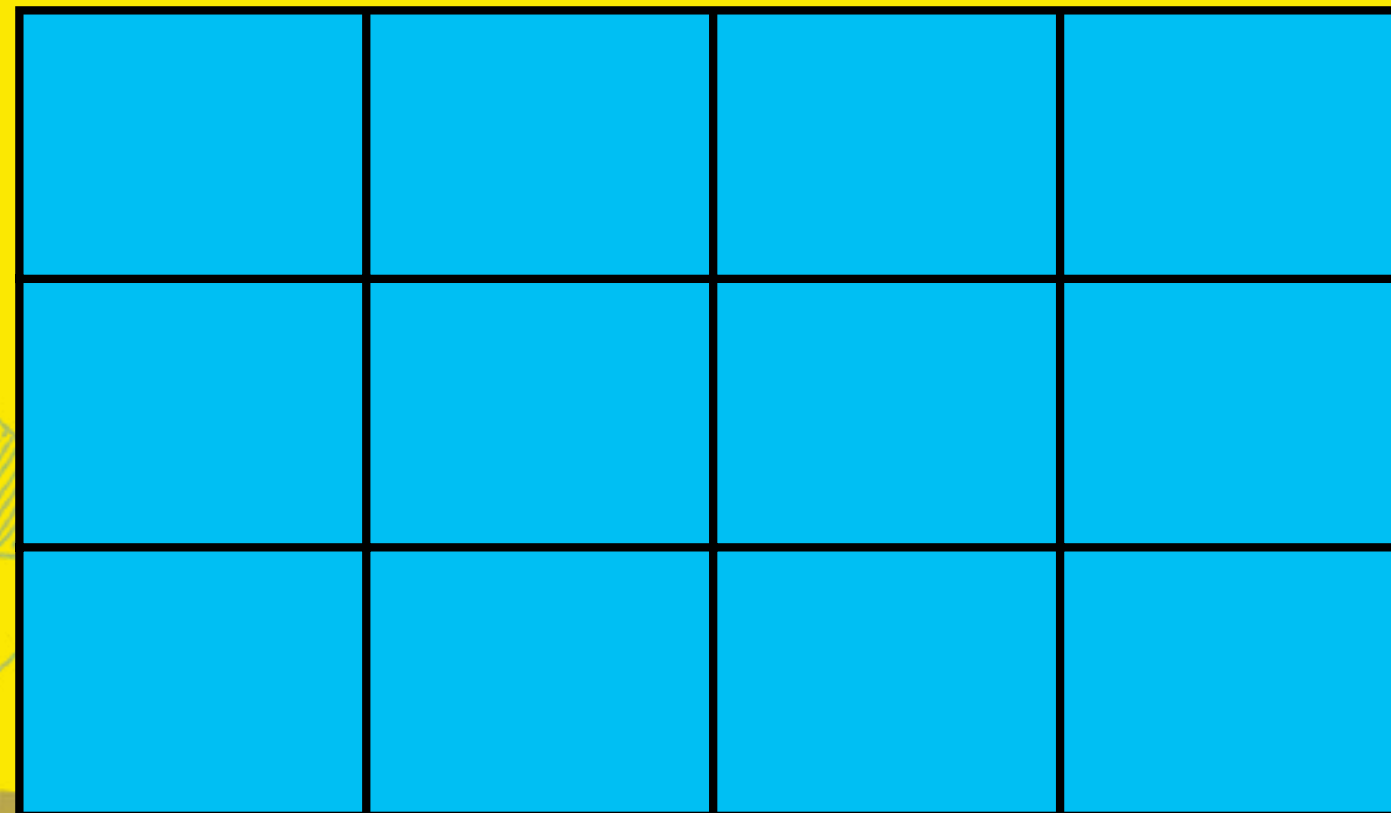
There are 8 tables in the lunchroom. Three students sit at each table. Two tables do not have any students sitting at them. How many students are sitting at tables?



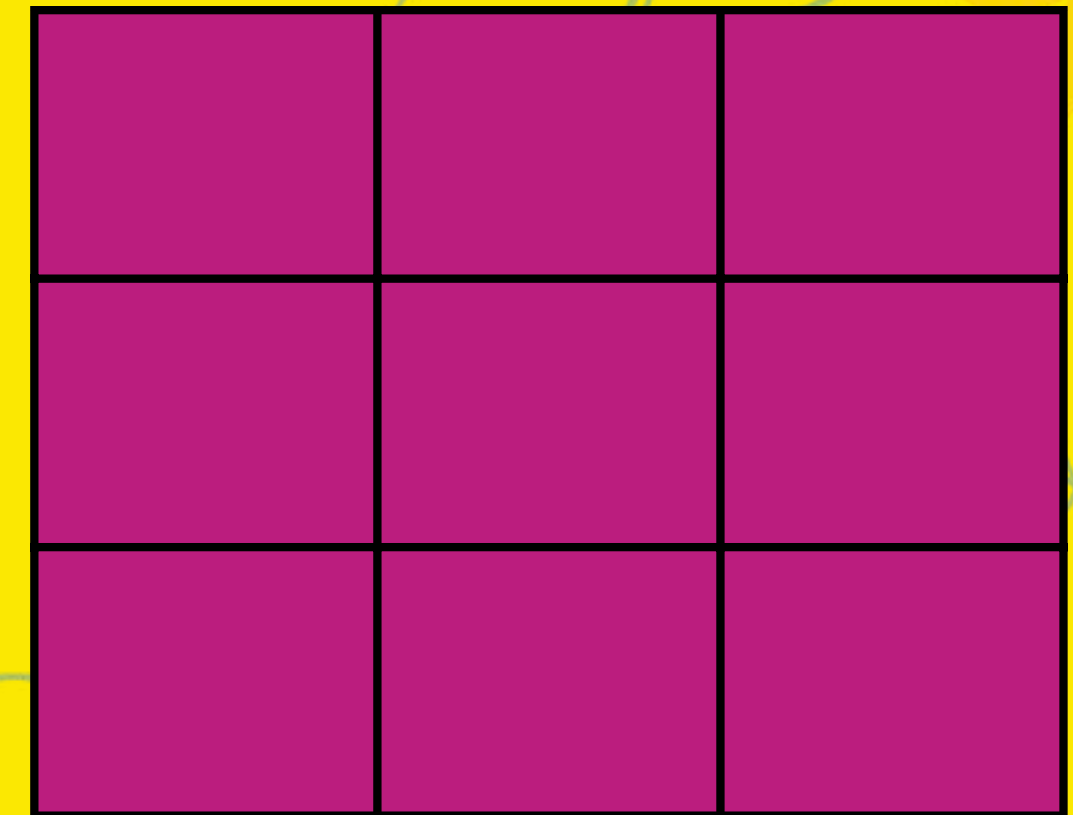
This shape is split into two equal parts or two halves. How are the shapes below split?



A.

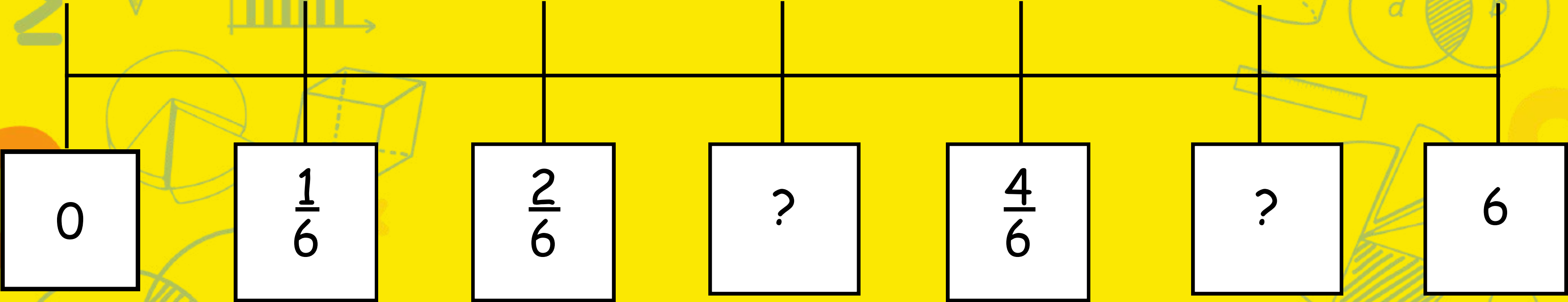


B.



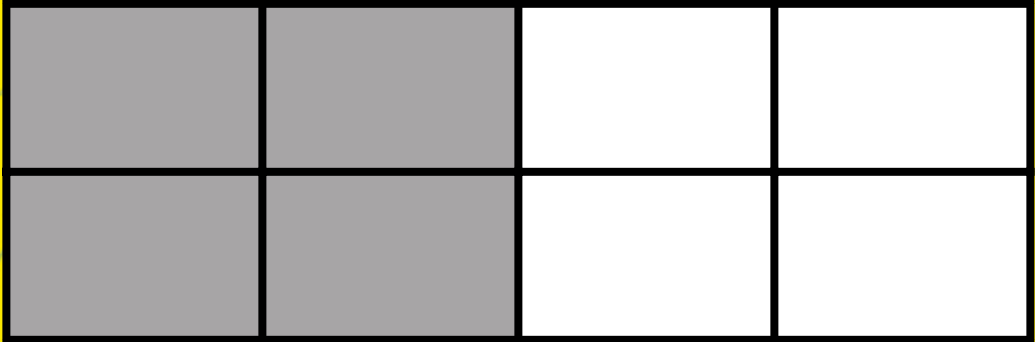
C.

Fractions

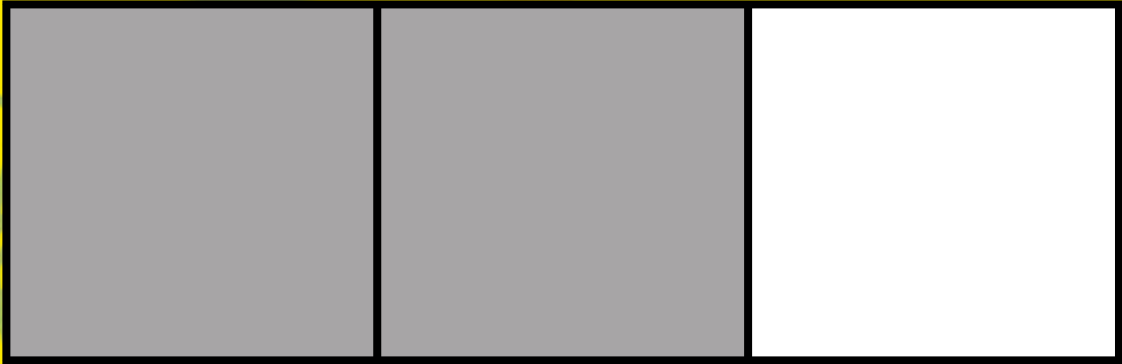


Match the equivalent fractions.

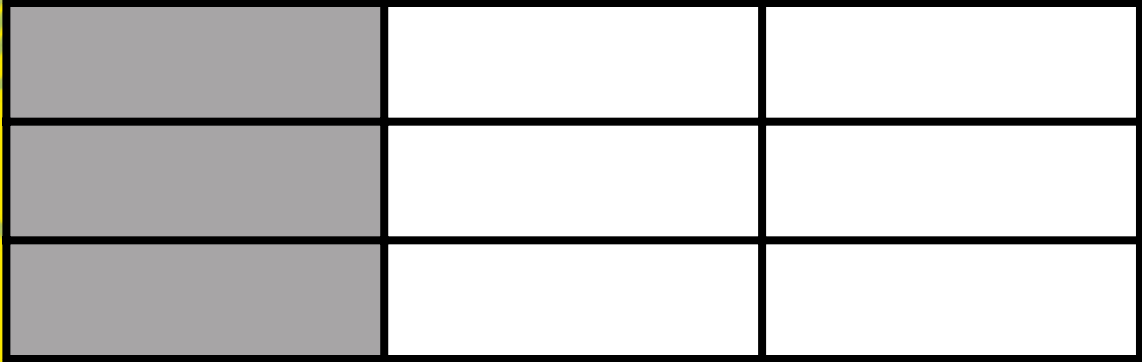
1.



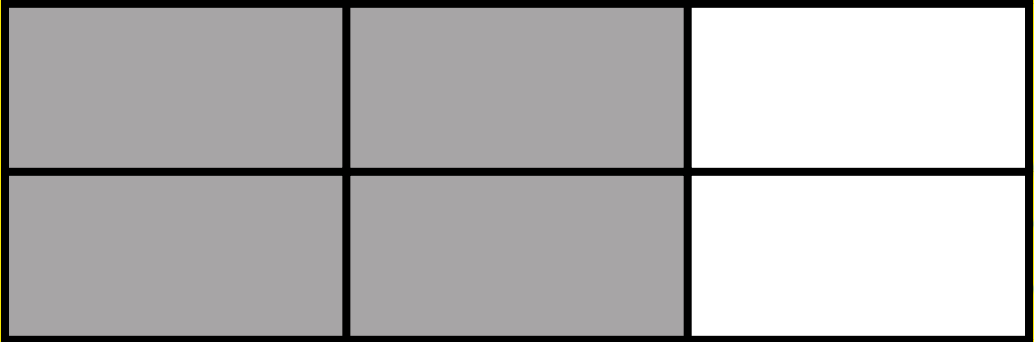
2.



3.



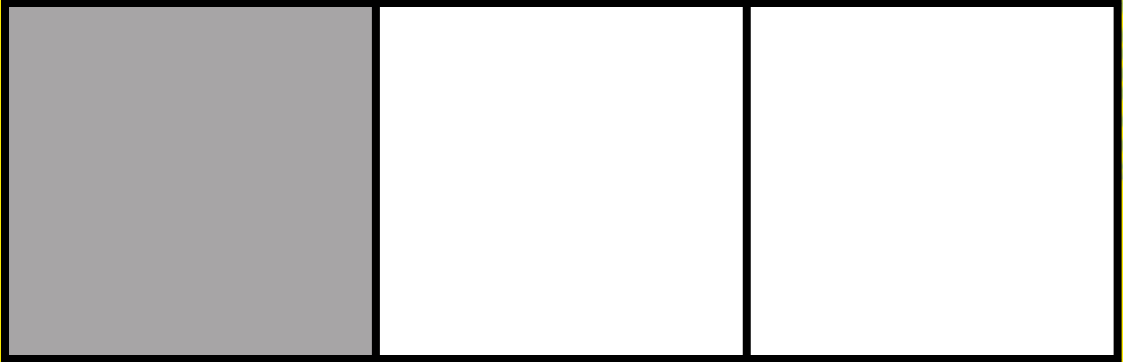
a.



b.



c.



Use the symbols $<$, $>$, or $=$ to compare the fractions.

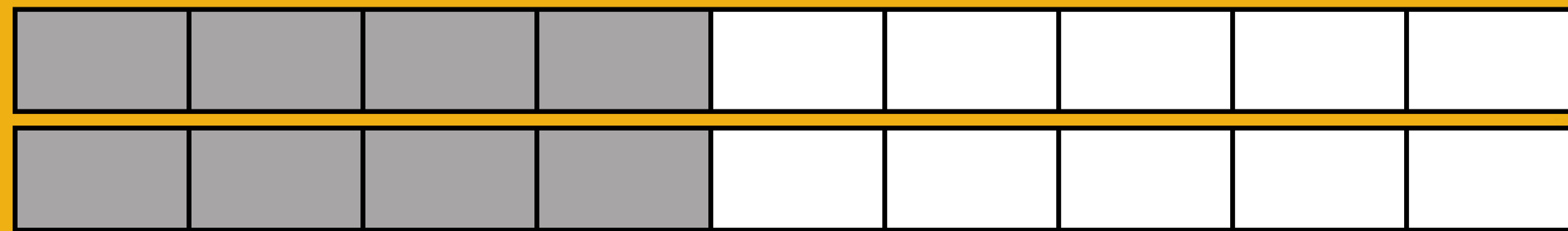
$\frac{5}{6}$

$\frac{3}{6}$



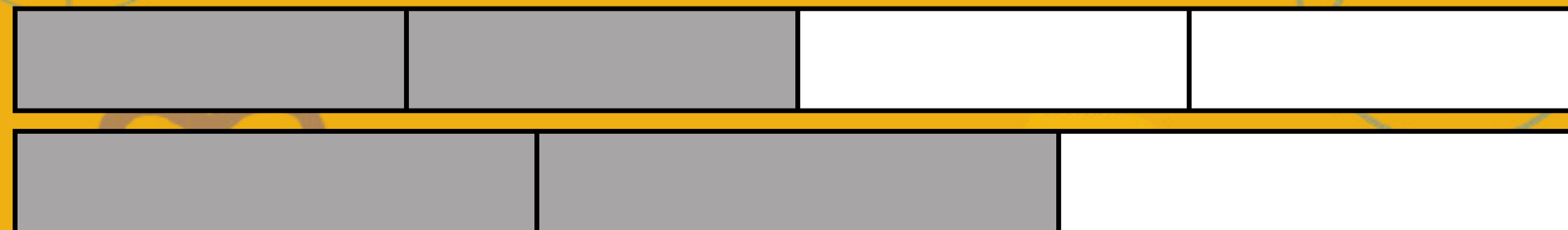
$\frac{4}{9}$

$\frac{4}{9}$



$\frac{2}{4}$

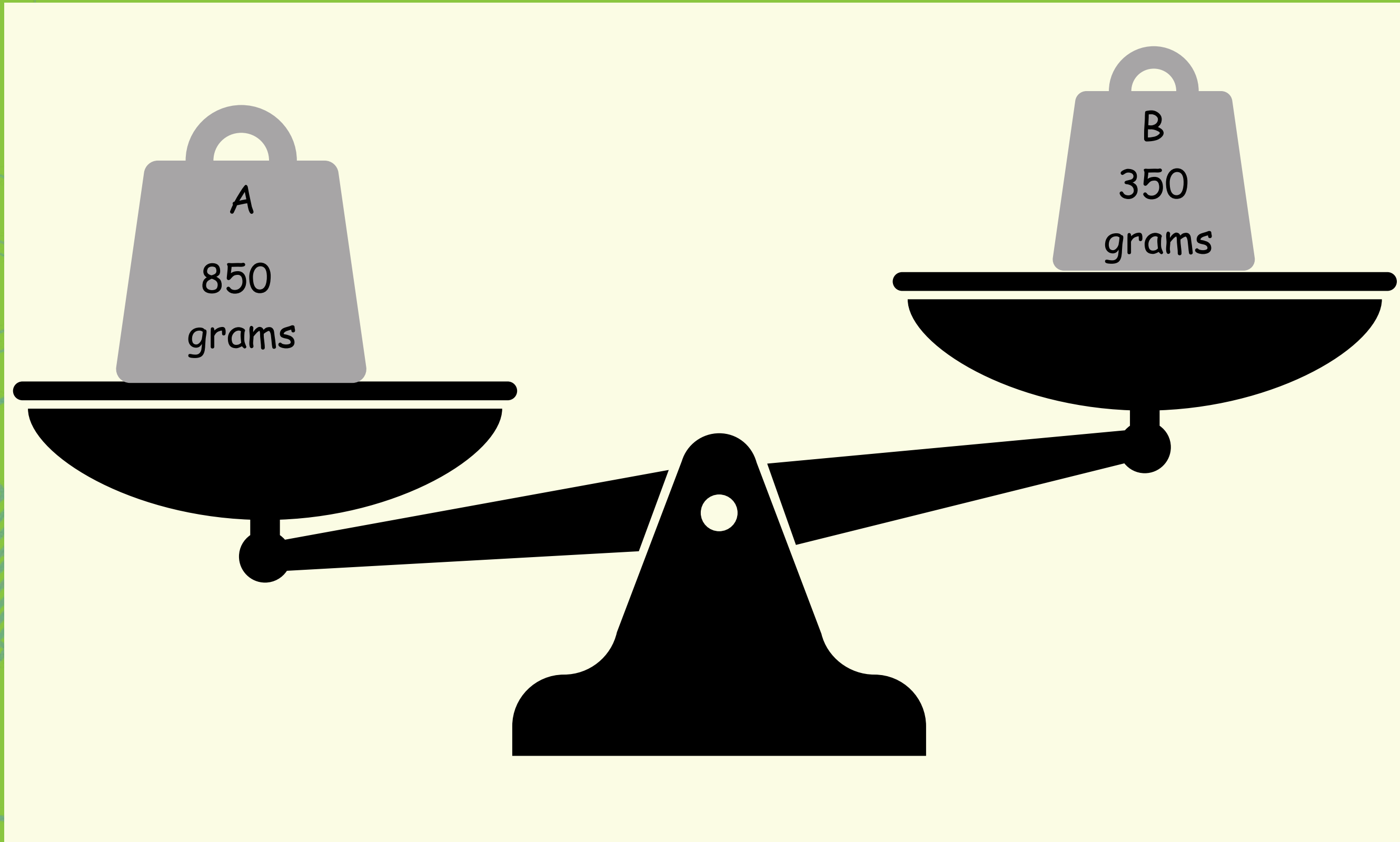
$\frac{2}{3}$



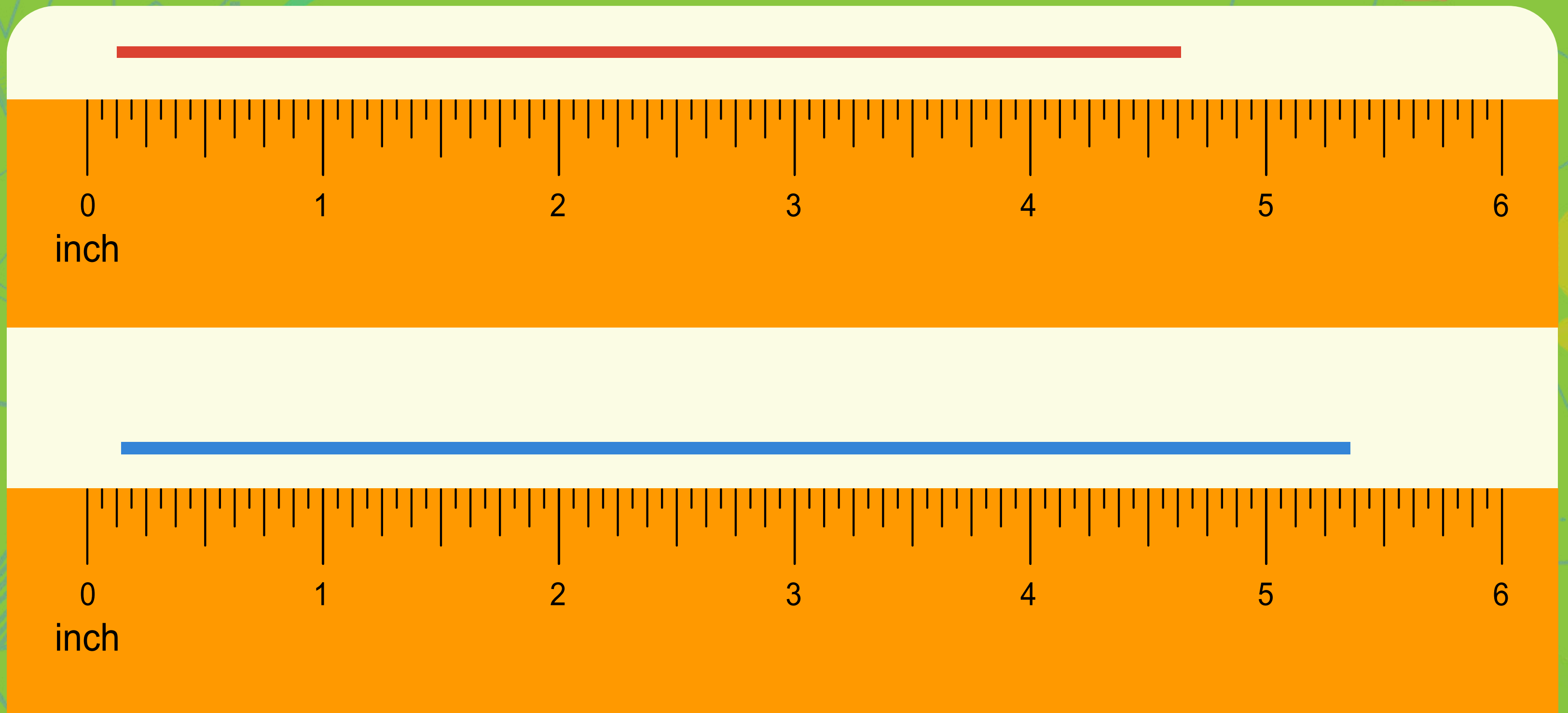


Tim started reading at 6:30.
He read for 1 hour and 20 minutes.
What time did he stop reading?





What is the length of each line to the nearest $\frac{1}{4}$ inch?



8,671,324





- Round 72,789 to the nearest thousands place.
- Now round 72,789 to the nearest ten thousands place.
- New York City has a population of 8,380,000 people. Round this number to the nearest million people.

Adding and Subtracting
Multi-digit Numbers



$$5,134 + 972 = \underline{\hspace{2cm}}$$

$$8,275 + 3,642 = \underline{\hspace{2cm}}$$

$$5,671 - 860 = \underline{\hspace{2cm}}$$

$$4,201 - 2,579 = \underline{\hspace{2cm}}$$



Multi-Step Word Problem



Marco has 4,374 paper clips. Eliza has 827 paper clips. They decided to combine their paper clips. If they give 584 paper clips to Jackson, how many paper clips will they have left?



Rule: add 8

1, _____, _____, _____, _____, _____, _____



9

(1,9)

(3,3)

24

(_ , _)

(_ , _)

(_ , _)

(_ , _)



$$621 \times 4 = \underline{\hspace{2cm}}$$

$$814 \times 5 = \underline{\hspace{2cm}}$$

$$24 \times 36 = \underline{\hspace{2cm}}$$





$$752 \div 4 = \underline{\hspace{2cm}}$$

$$273 \div 3 = \underline{\hspace{2cm}}$$

$$436 \div 8 = \underline{\hspace{2cm}}$$

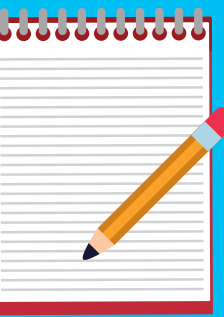


Two-Step Word Problem

A furniture company has 14 workers and each worker makes 52 couches a day. If each delivery truck can only carry 5 couches at a time, how many trucks will the furniture company need to deliver all of the couches?
*You must round up to get a full truck.



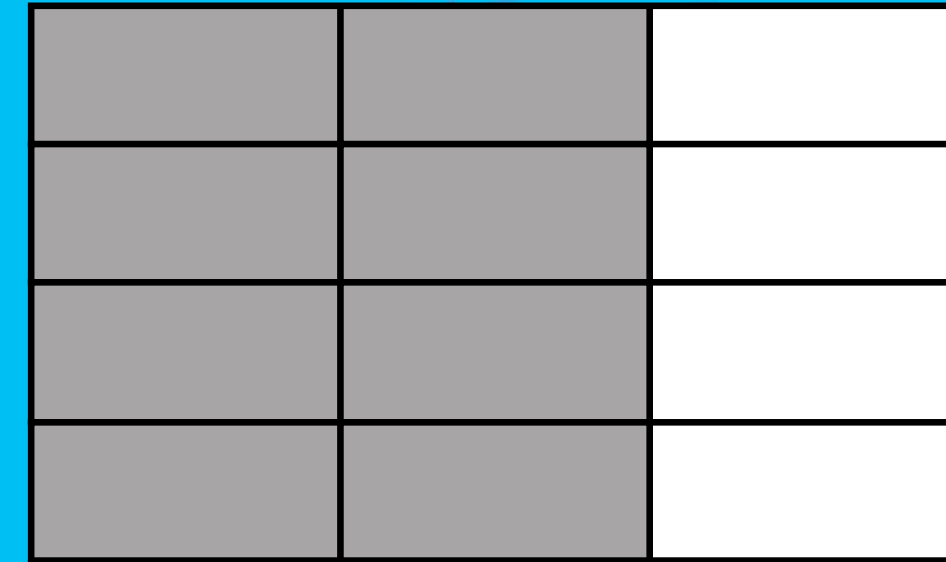
1. Write the fraction for the shaded area for all 6 rectangles.



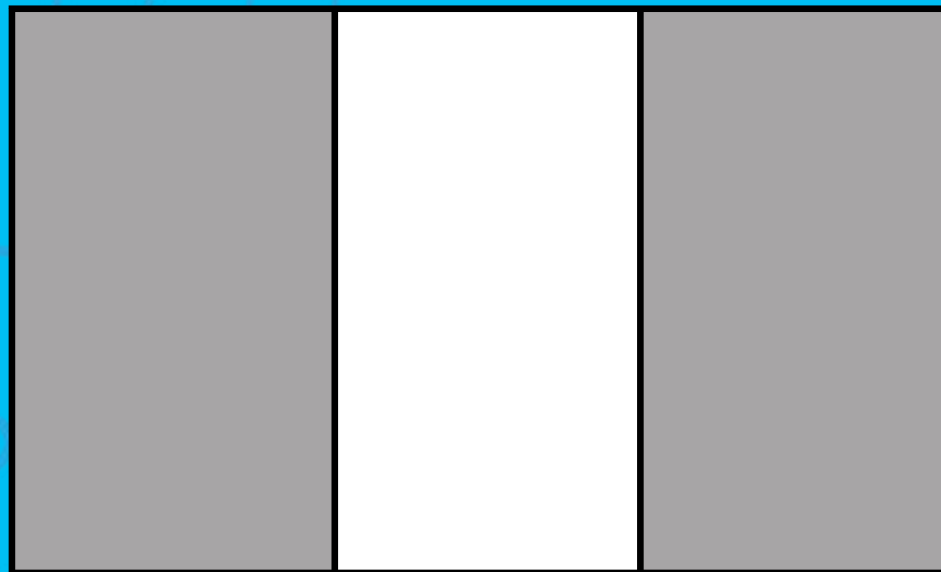
1.



a.



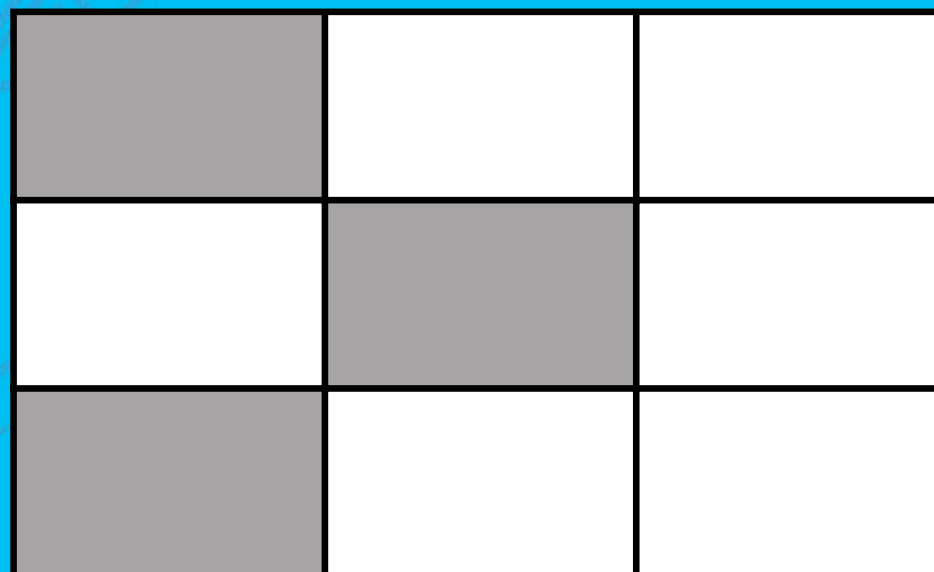
2.



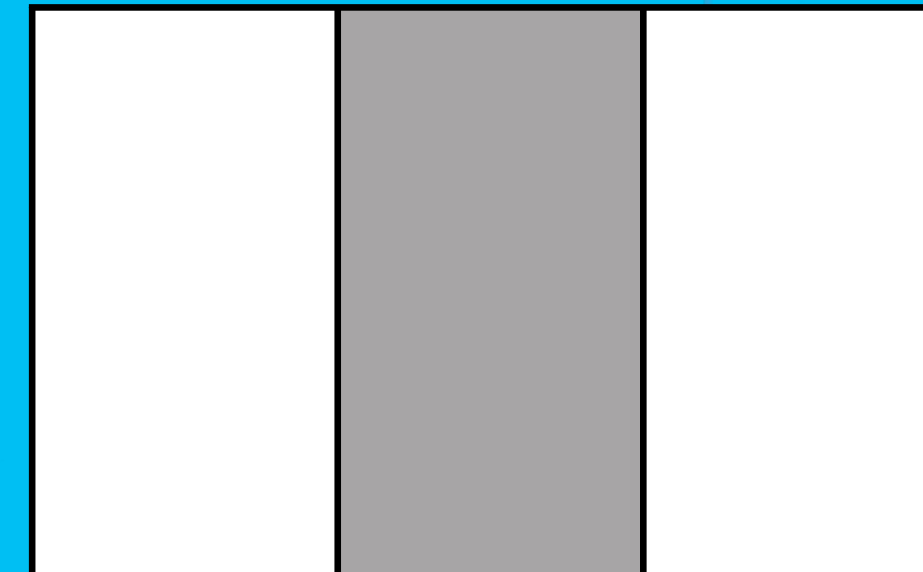
b.



3.



c.



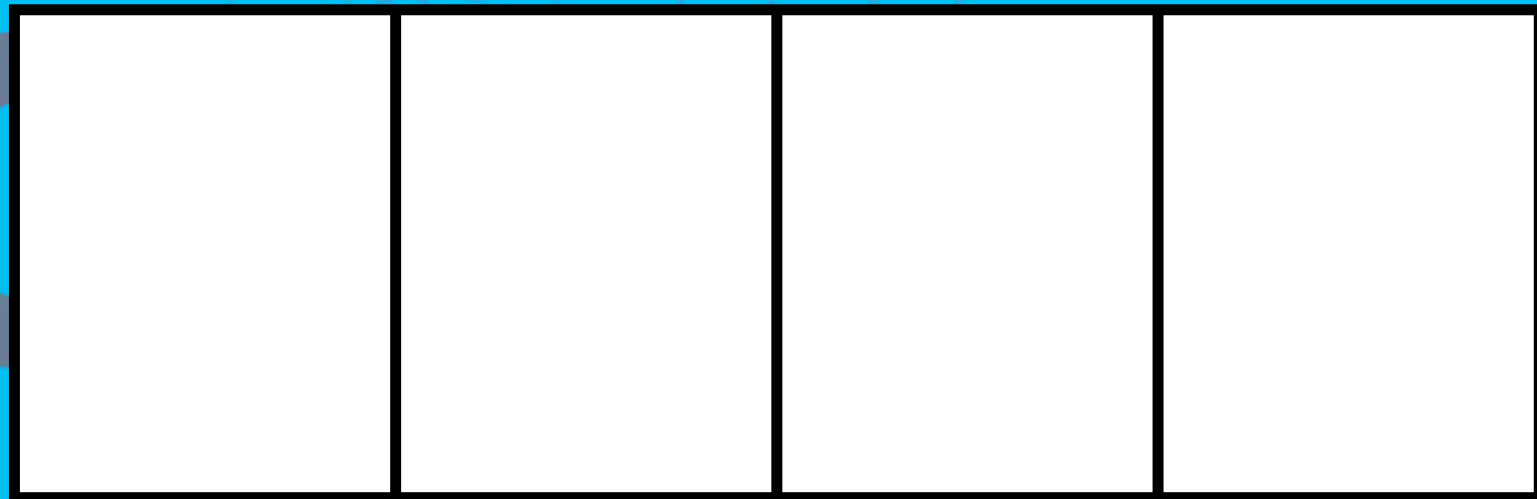
2. Match the equivalent fractions.



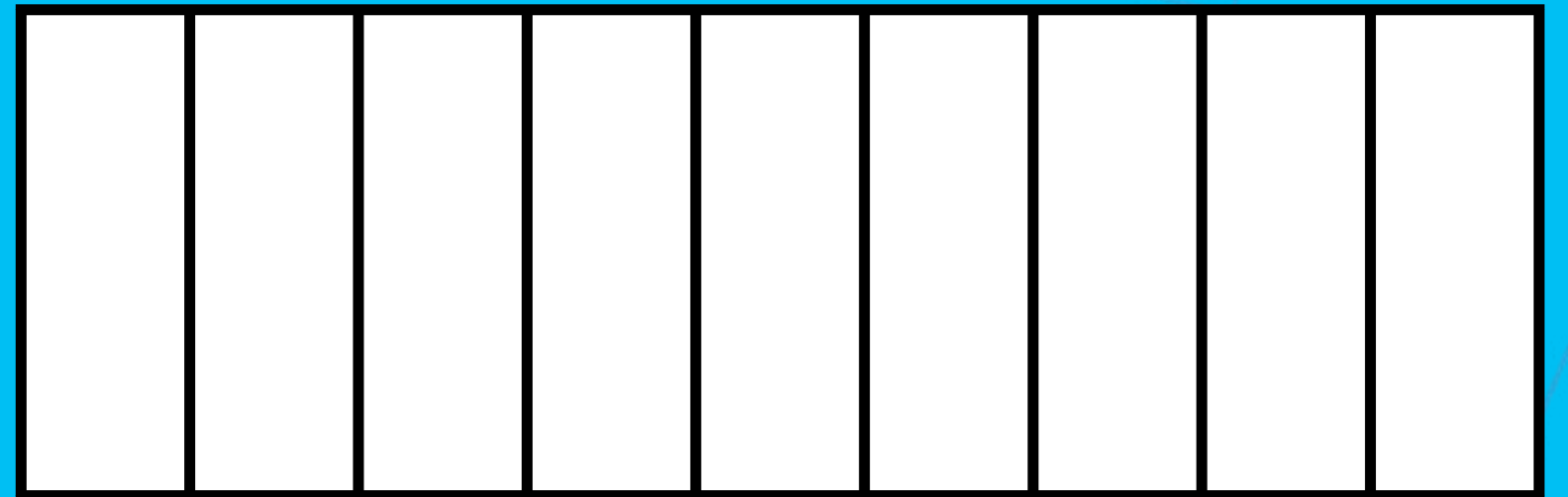
Denise ate $\frac{3}{4}$ of a cake.

Tammy ate $\frac{6}{9}$ of a cake.

Who ate more?



Denise



Tammy



Adding and Subtracting Mixed Numbers



$$1\frac{2}{4} + 3\frac{3}{4} =$$

$$5\frac{1}{3} - 3\frac{2}{3} =$$

$$5\frac{4}{6} + 2\frac{5}{6} =$$

Multiplying a whole
number by a fraction

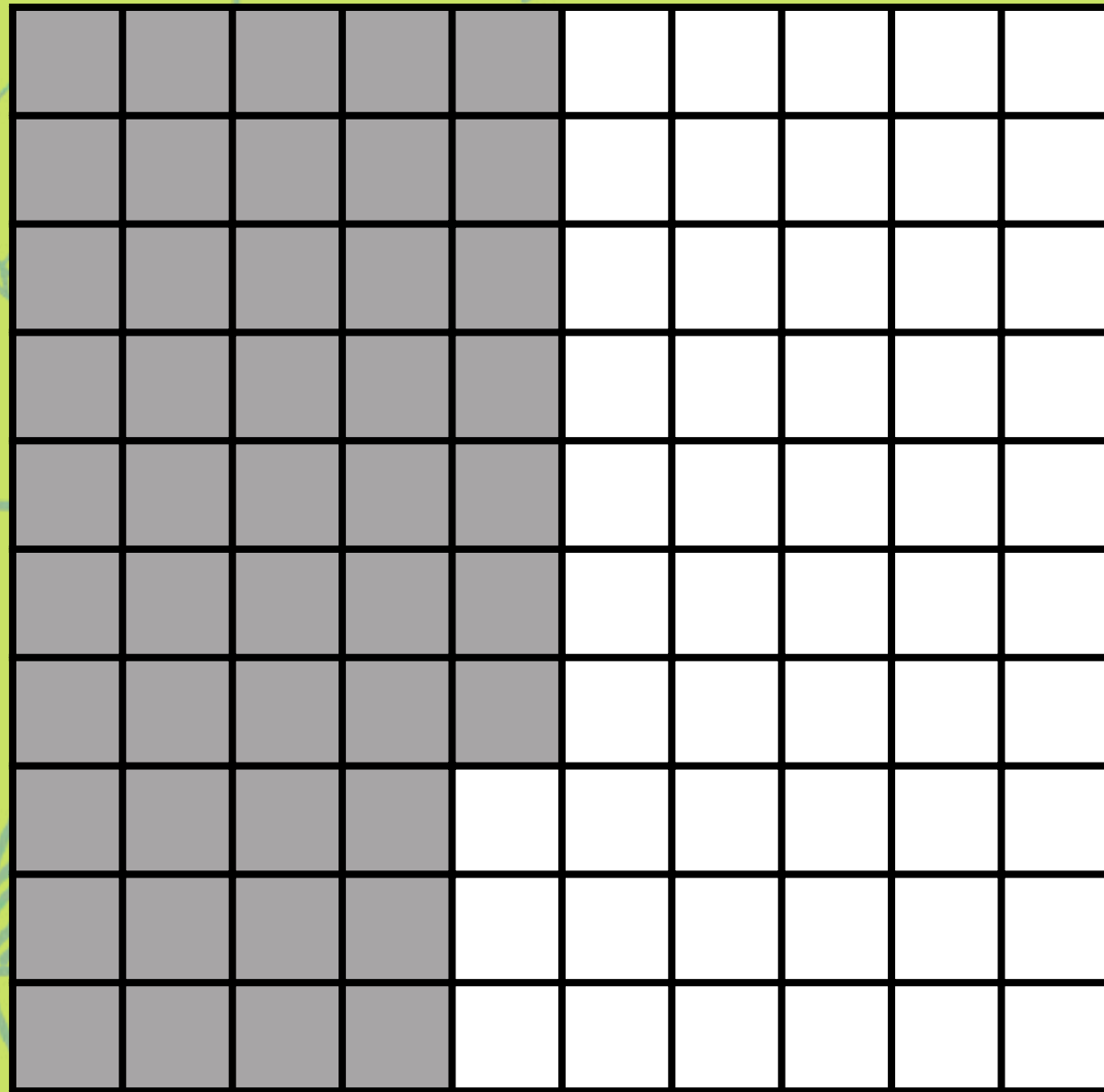
$$5 \times \frac{1}{4} =$$

A recipe calls for $\frac{2}{5}$ cups of sugar.
If you made the recipe five times,
how much sugar would you need?



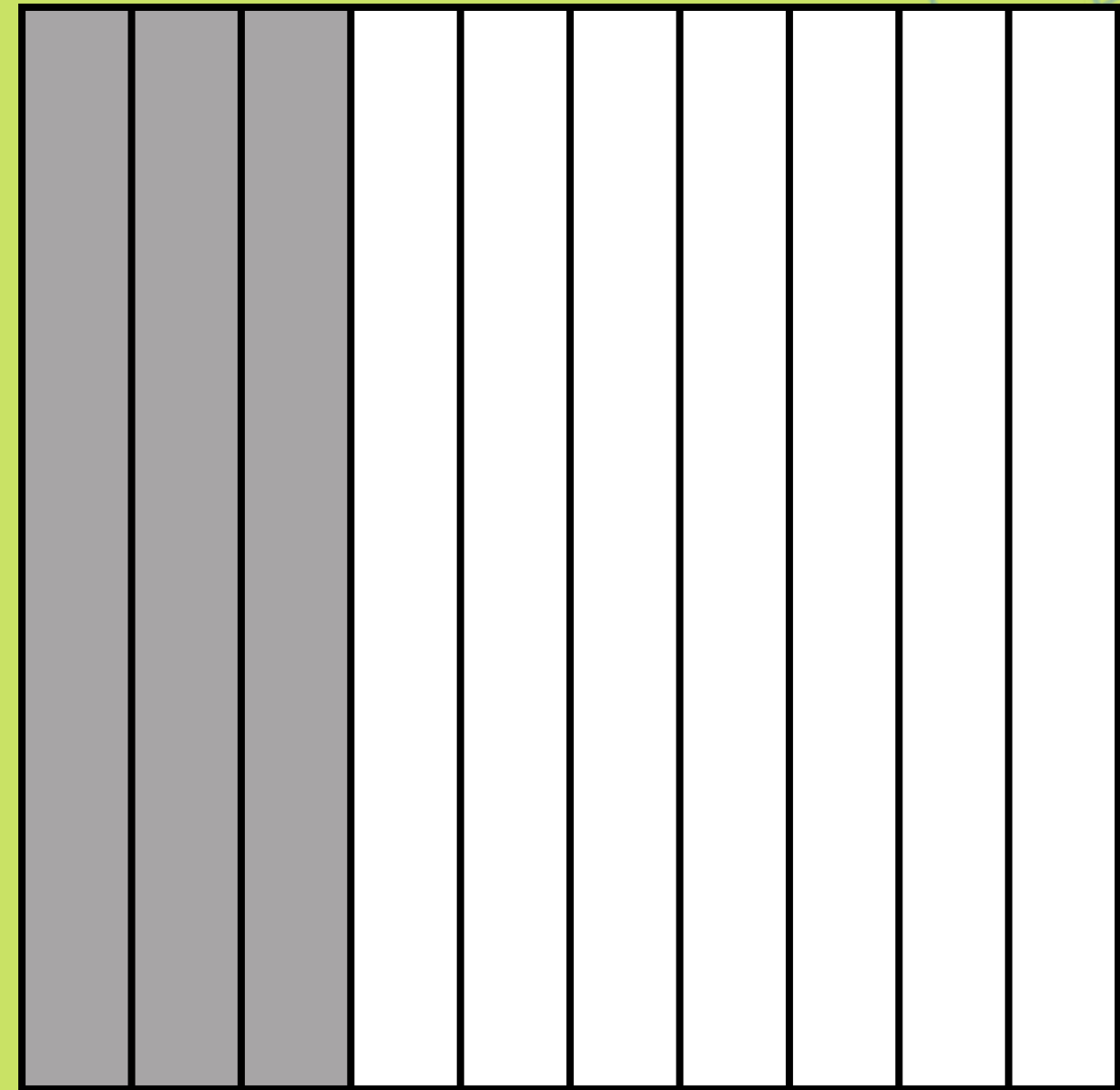


What fraction does this represent?



+

What fraction does this represent?



Now, add the fractions together. What is the total?



$$\frac{8}{10} =$$

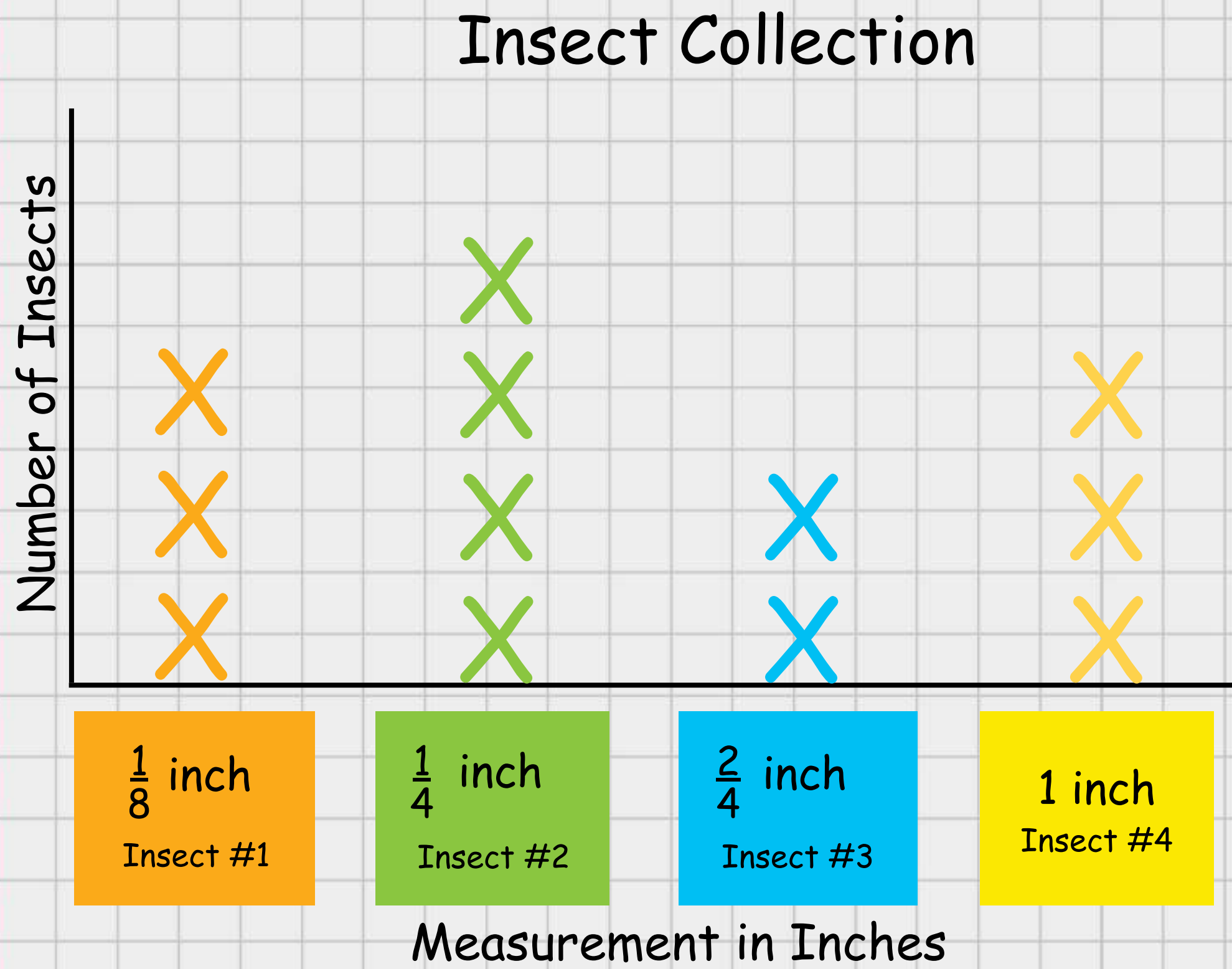
$$\frac{67}{100} =$$

$$\frac{3}{100} =$$

Compare the following decimals
using using $<$, $>$, or $=$

$$.67 \bigcirc .7$$

$$.09 \bigcirc .1$$



1. What is the longest insect?
2. What is the shortest insect?
3. What is the difference between the longest and the shortest insects?
4. If I lined all of the insects that measured $\frac{1}{4}$ of an inch one behind another, what would their total length be?



Fill in the missing parts in the tables.

| Hours | Minutes |
|-------|---------|
| 1 | 60 |
| 3 | |
| 5 | |

| Meters | Centimeters |
|--------|-------------|
| 1 | 100 |
| 3 | |
| | 1,000 |

| Liters | Milliliters |
|--------|-------------|
| 1 | 1,000 |
| 20 | |
| | 100,000 |

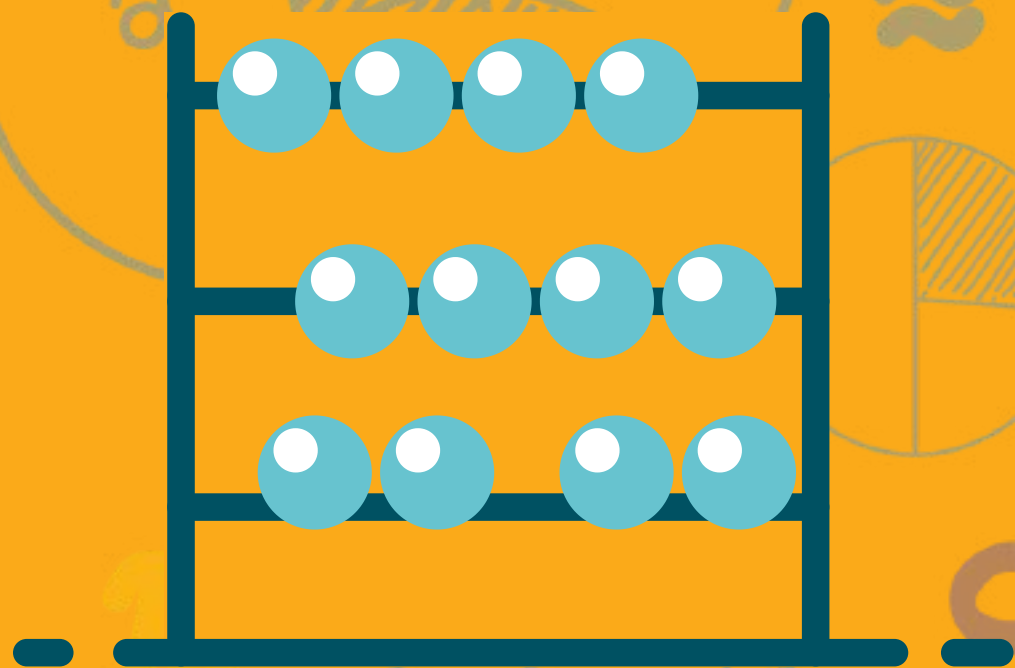


Helen needs to put up a fence around her rectangular shaped yard. She knows the square footage of her yard is 80,000 square feet. She measured one side of her yard and it measured 200 feet. What is the perimeter of her yard?

200 ft.

area = 80,000 square feet

3,482,956





$$23,479 \times 100 =$$

$$6,190 \times 1,000 =$$

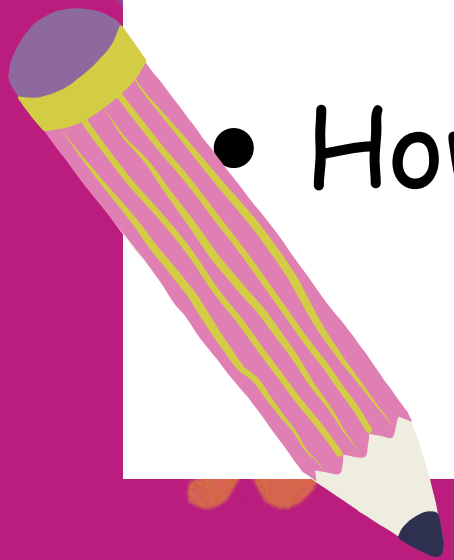
$$32,891,900 \div 10 =$$

$$12,340,000 \div 1,000 =$$



Example: In exponential form the number 100 can be written as 10^2 .

- How would you write the number 10,000 in exponential form?
- How would you write the number 1,000,000 in exponential form?
- How would you write 10^3 in numeral (number) form?
- How would you write 10^7 in numeral (number) form?



$$20 + 15 - 8$$

$$3 \times (15 \div 5)$$

$$5 + (6 \times 7) - 12 \div 2$$



Multi-Digit
Multiplication

$$32 \times 24 =$$

$$406 \times 135 =$$

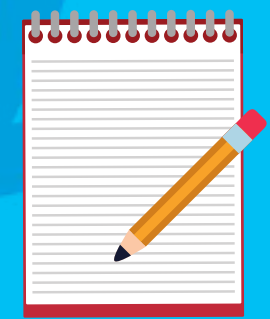
$$324 \times 22 =$$



$$624 \div 7 =$$

$$752 \div 25 =$$

$$2,359 \div 15 =$$



8.392

25.467

What is the place value of the 6?
What is the place value of the 4?
What is the place value of the 5?
What is the place value of the 7?



$$0.5 \times 10 =$$

$$.35 \times 10 =$$

$$.67 \times \frac{1}{10} =$$

$$3 \times \frac{1}{10} =$$

8.245 rounded to the nearest tenth is 8.2 or 8.200.

- Round 6.743 to the nearest hundredth.
- Round 4.531 to the nearest one.
- ? • Round .412 to the nearest tenth.



Adding and Subtracting
with Decimals



$$1.85 + 2.41 =$$

$$25.67 + 76.52 =$$

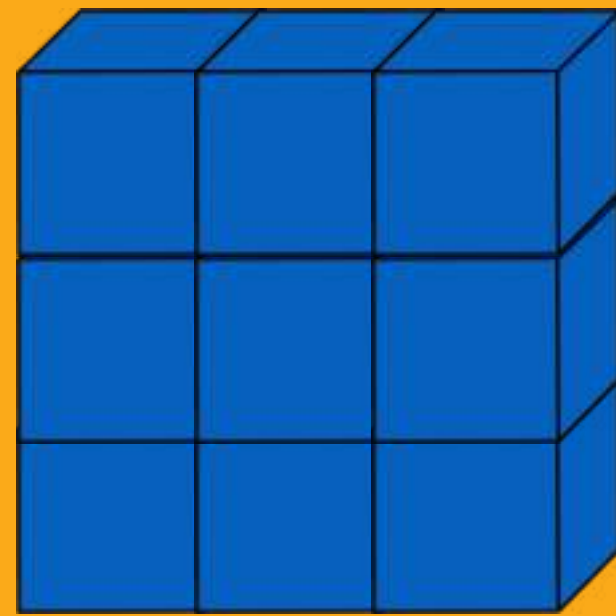
$$5.19 - 3.64 =$$



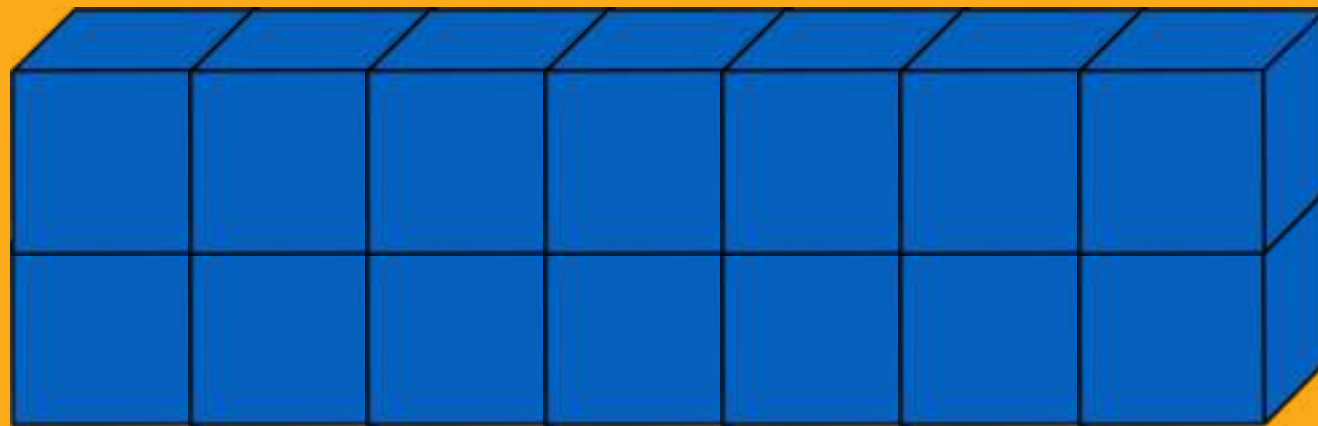
$$8.13 \times 45 =$$

$$7.04 \times 57 =$$

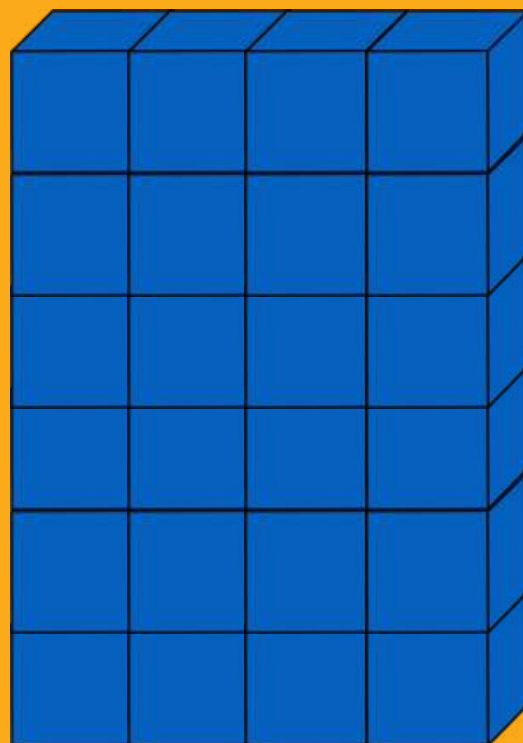
$$35.35 \div 2 =$$



= 9 cubic units

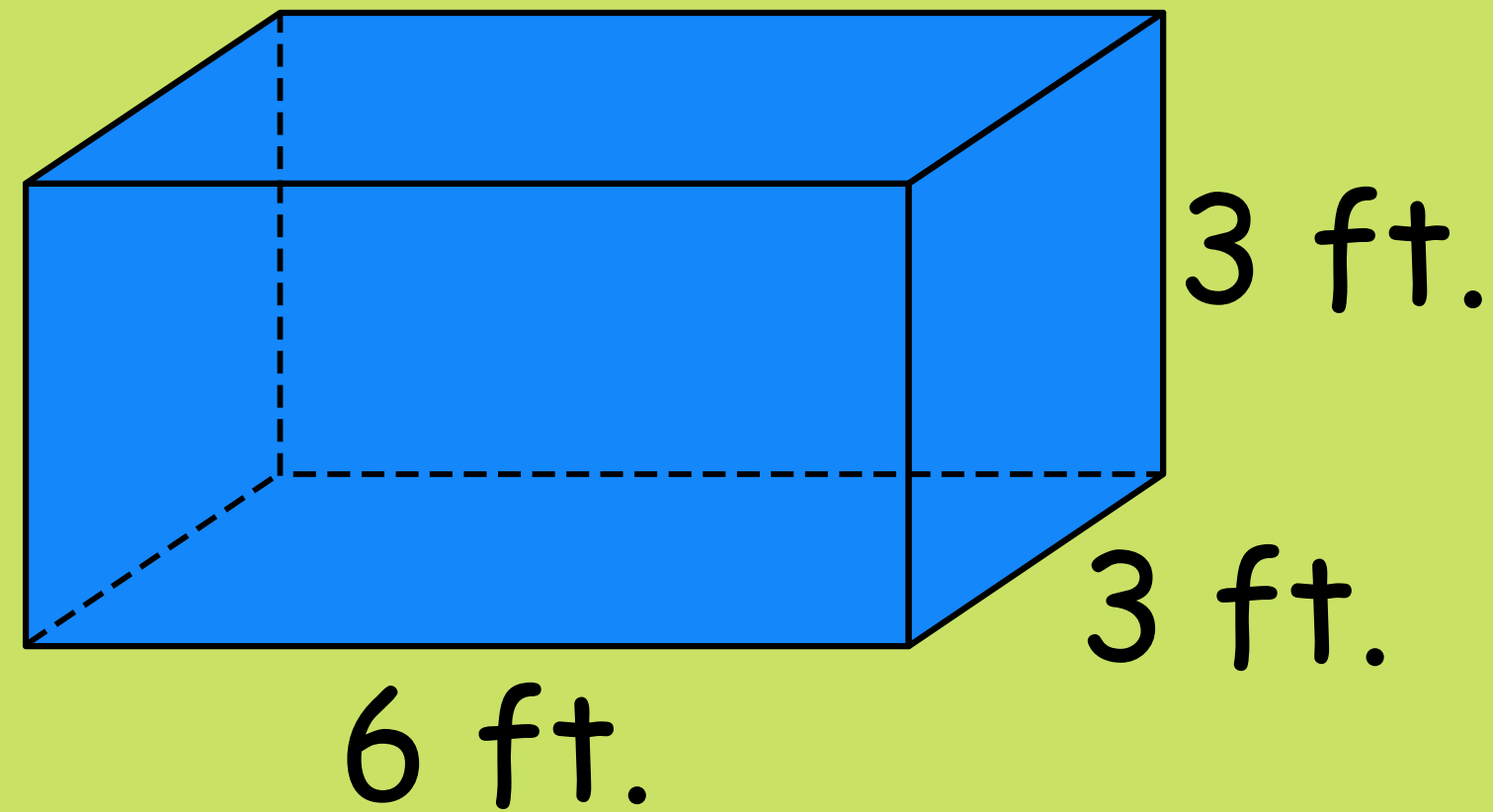


= ___ cubic units

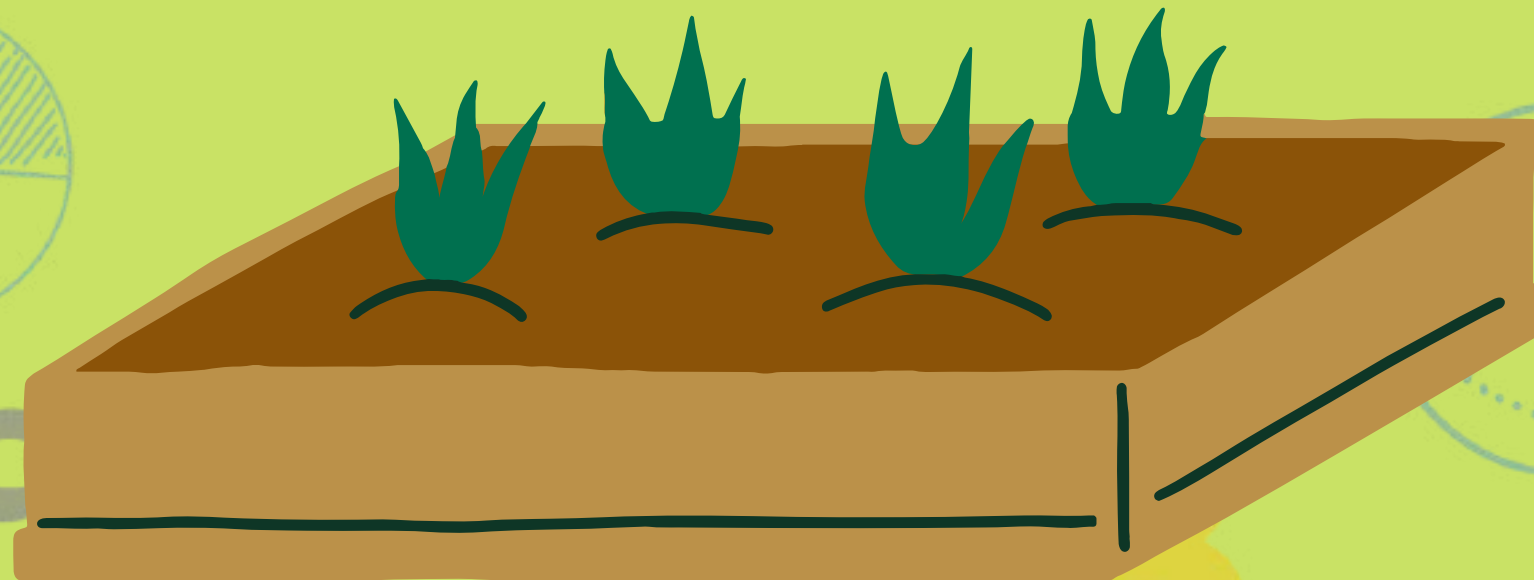


= ___ cubic units

What is the volume?



June wants a garden. She builds a planter box that measures 5 ft length and 4 ft width. June fills the planter box with soil 2 ft deep. What is the volume of soil in June's planter box?



Adding and Subtracting
Fractions with Unlike
Denominators



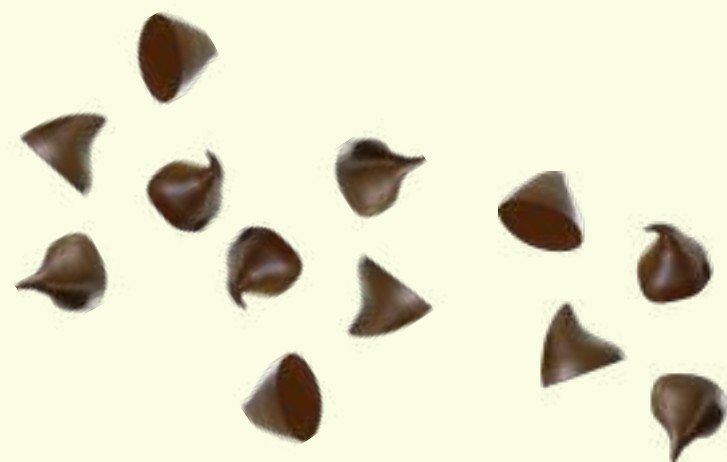
$$\frac{1}{3} + \frac{2}{6} =$$

$$\frac{4}{12} + \frac{2}{3} =$$

$$\frac{6}{8} - \frac{2}{4} =$$



Megan had $\frac{3}{4}$ bag of chocolate chips.
She used $\frac{2}{8}$ of the bag to make cookies.
What fraction of the bag of chocolate
chips does Megan have
left?



$$25 \div 3 =$$

$$78 \div 9 =$$

$$39 \div 7 =$$



Multiplying a whole number by a fraction



$$7 \times \frac{4}{6} = \qquad 6 \times \frac{9}{10} =$$



Jamal poured 9 glasses of juice for his friends.
If each glass holds $\frac{2}{3}$ of a cup,
how much juice did Jamal pour in all?

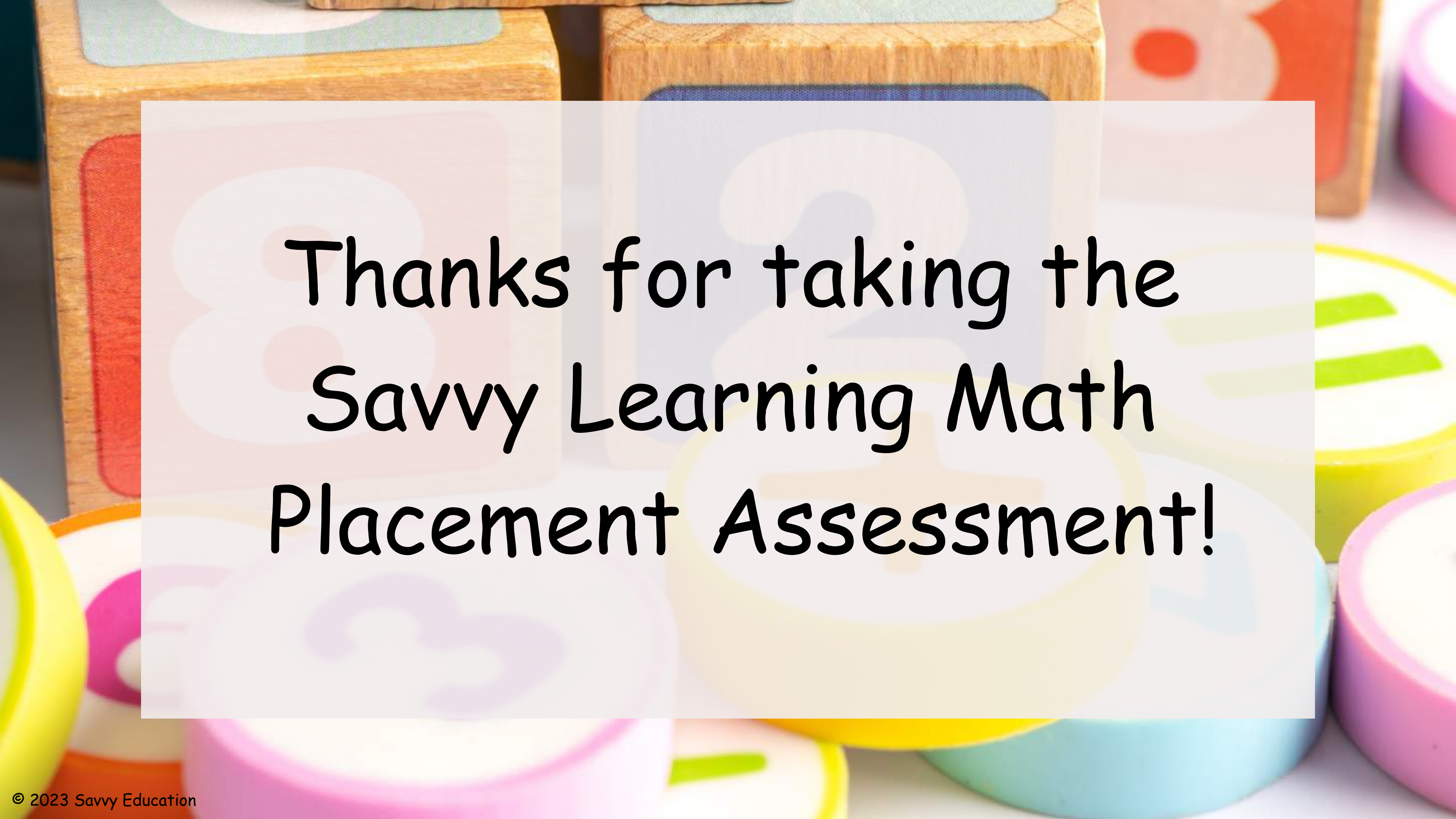


Multiplying a whole
number by a fraction

$$\frac{4}{6} \times \frac{4}{6} = \quad \frac{9}{10} \times \frac{9}{12} =$$

At the zoo $\frac{7}{10}$ of the animals have fur. Out of these furry animals $\frac{2}{6}$ belong to the cat family. What fraction of all the animals at the zoo belong to the cat family?



The background of the image features a collection of colorful wooden toys. At the top, there are wooden blocks with various patterns, including a blue circle and a red rectangle. Below these, there are several wooden rings in yellow, pink, and blue, some with numbers like '8' and '2' and others with math symbols like a plus sign and a percent sign. The text is centered over a semi-transparent white rectangle.

Thanks for taking the
Savvy Learning Math
Placement Assessment!