AVVY LEARNING

Math Assessment

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

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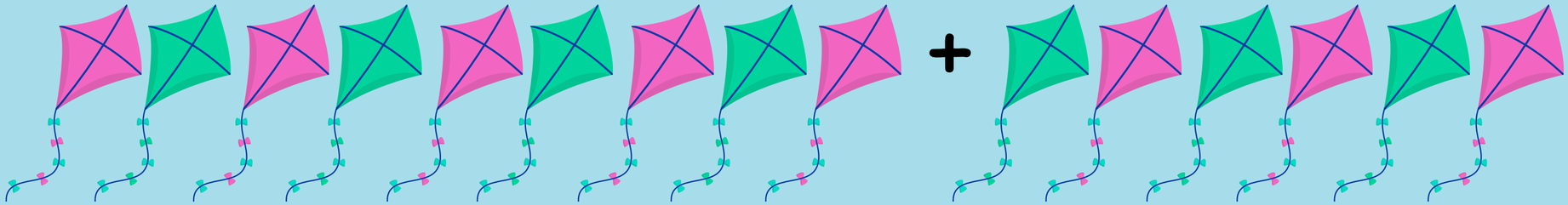
Number Identification 1-20

5	18	20
10	12	
7	19	

Counting up to 20

3 + 5 =

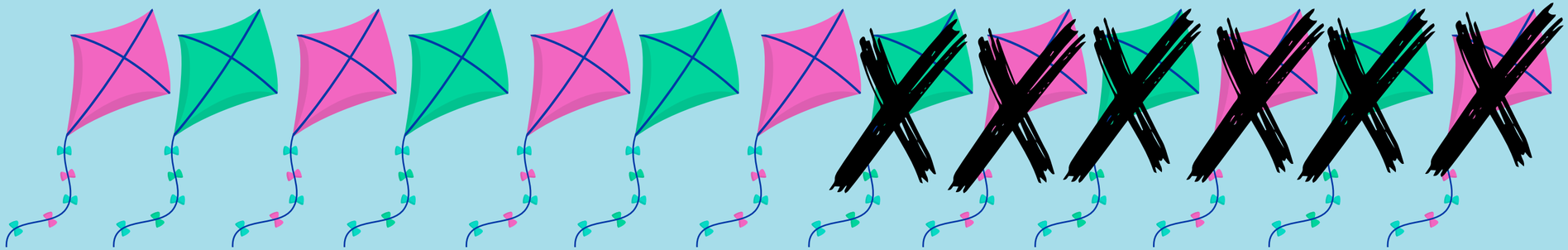
6 + 4 =



9 + 6 =

5 - 1 =

9 - 4 =

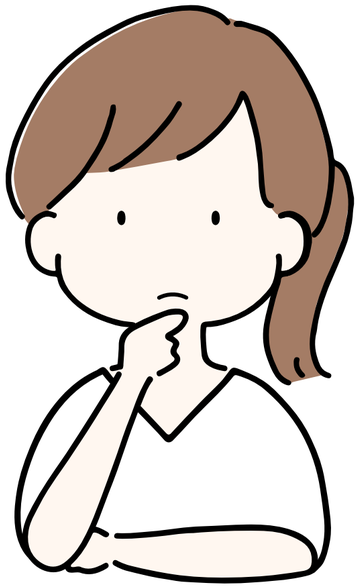


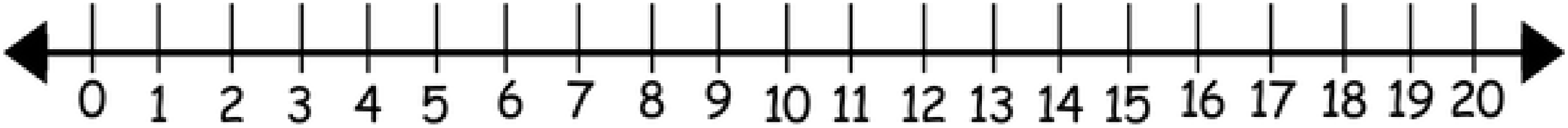
13 - 6 =

3 + 4 =

3 + 3 =

7 + 3 =





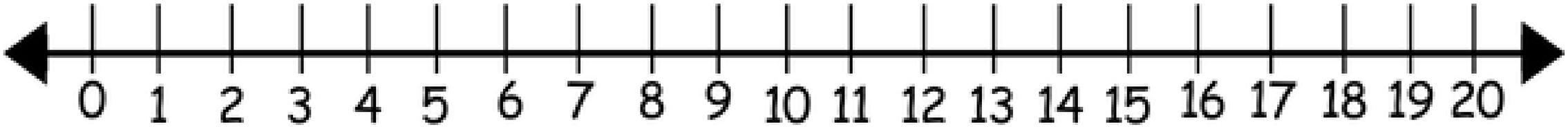
12 + 6 =

13 + 4 =

15 + 5 =

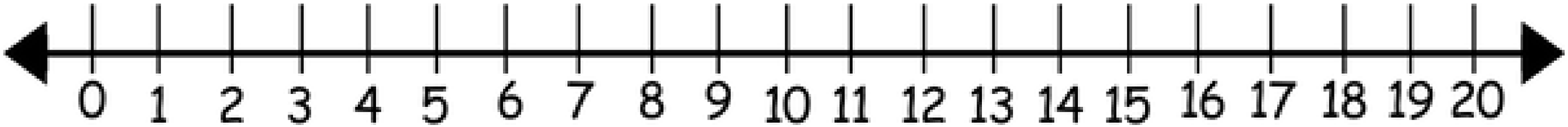
Word Problem

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



Word Problem

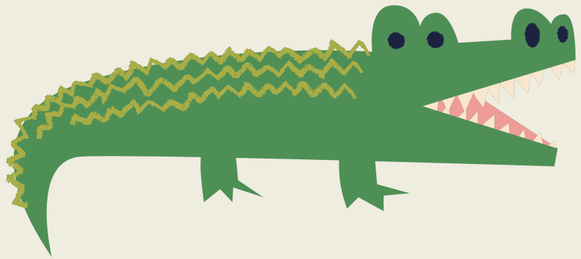
Lin had 19 suckers. He ate 4 of them. How many suckers does Lin have left?



- 25 = 2 tens 5 ones
- 46 = _ tens _ ones
- 13 = _ tens _ ones
- 61 = _ tens _ ones
- 90 = _ tens _ ones

less than < greater than > equal to =

38 is less than 40.

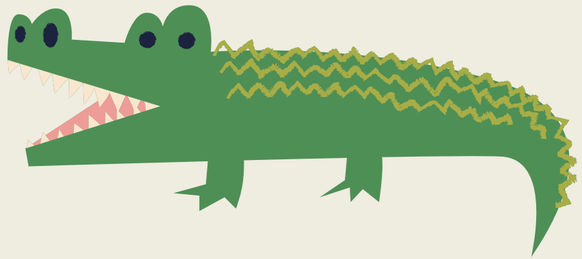


35 is _____ 61.

50 is _____ 15

105 is _____ 105

120 is _____ 75



Mental Math + 10 and -10

25 + 10 =

48 + 10 =

25 - 10 =

48 - 10 =

10 + 12 =

63 + 20 =

40 + 20 =

21 + 30 =

Add and Subtract up to 100 Without Regrouping

56 + 33 =

41 + 57 =

86 - 25 =

79 - 47 =

Mental Addition and Subtraction Within 20

$5 + 4 = ____$

$8 + 8 = ____$

$6 + 7 = ____$

$11 - 6 = ____$

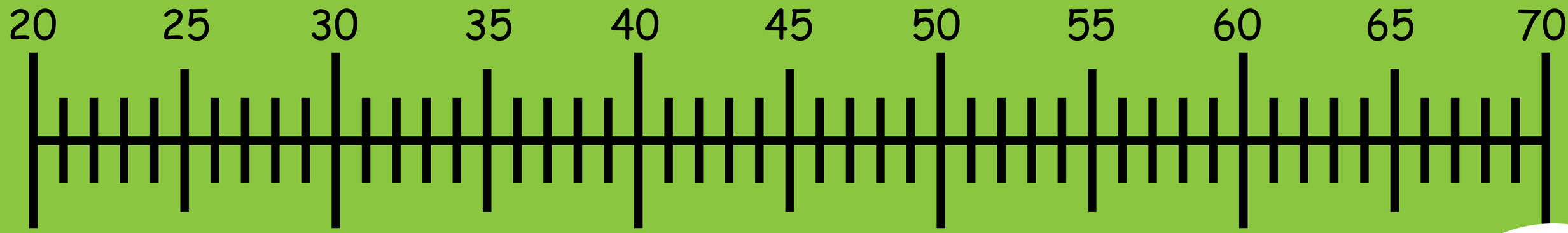
$13 - 7 = ____$

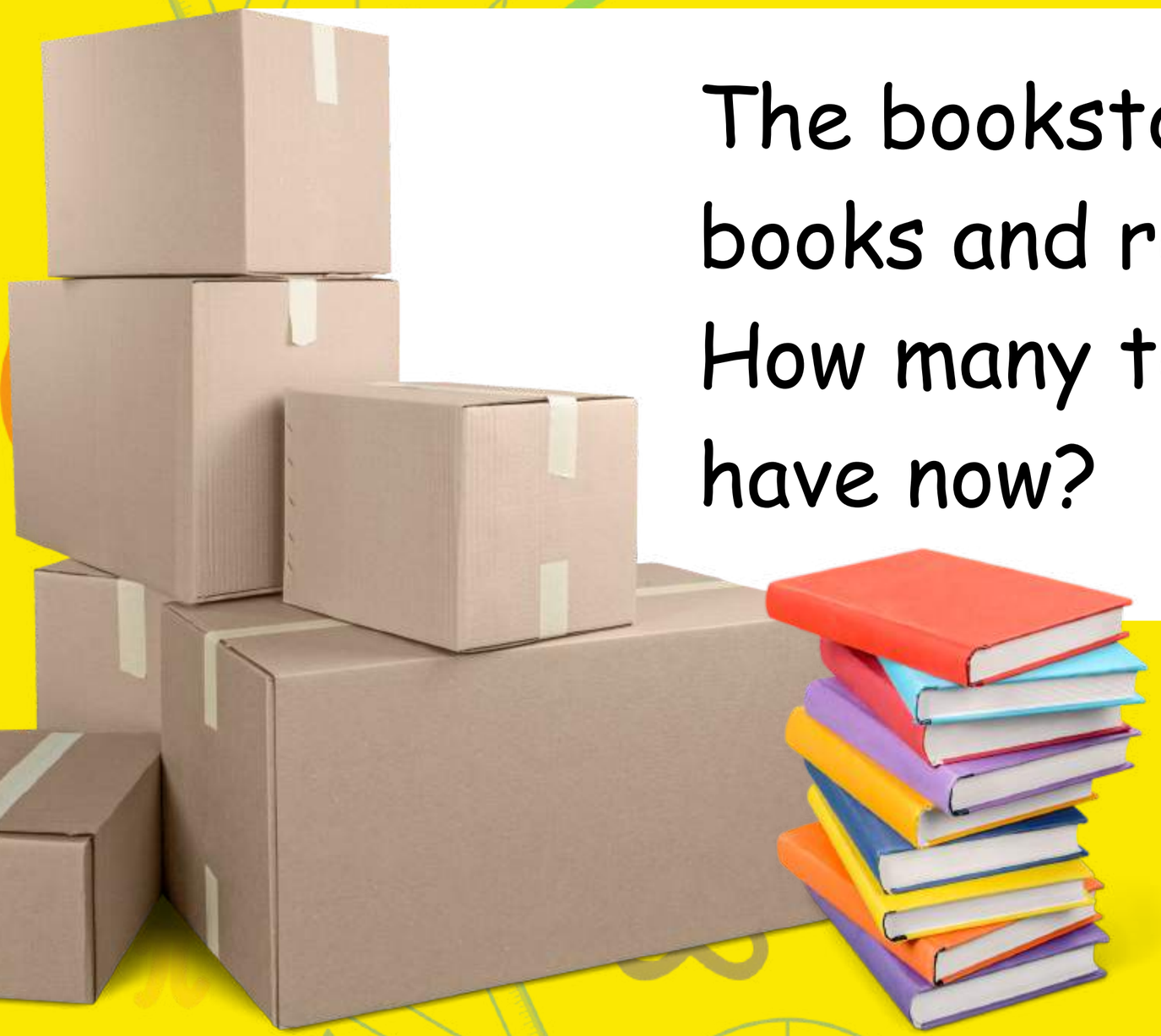
$18 - 9 = ____$

$46 + 23 = ____$

$68 - 37 = ____$

$47 - 24 = ____$





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

789

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 = _____

$$\begin{array}{r} 47 \\ +35 \\ \hline \end{array}$$

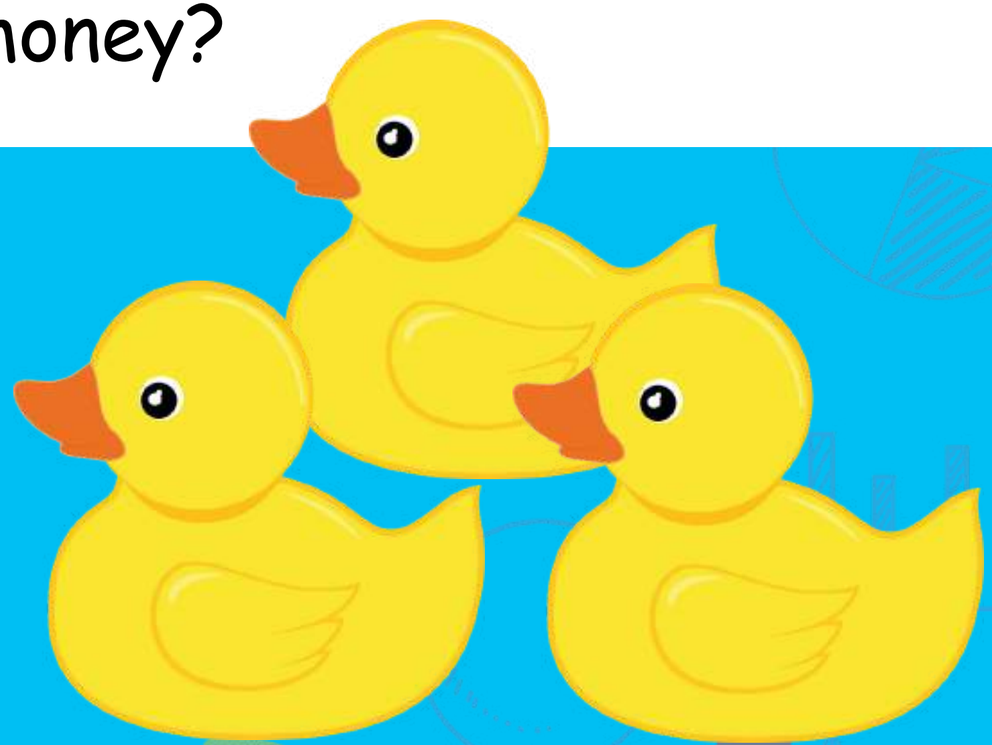
$$\begin{array}{r} 87 \\ -68 \\ \hline \end{array}$$

$$\begin{array}{r} 56 \\ -37 \\ \hline \end{array}$$

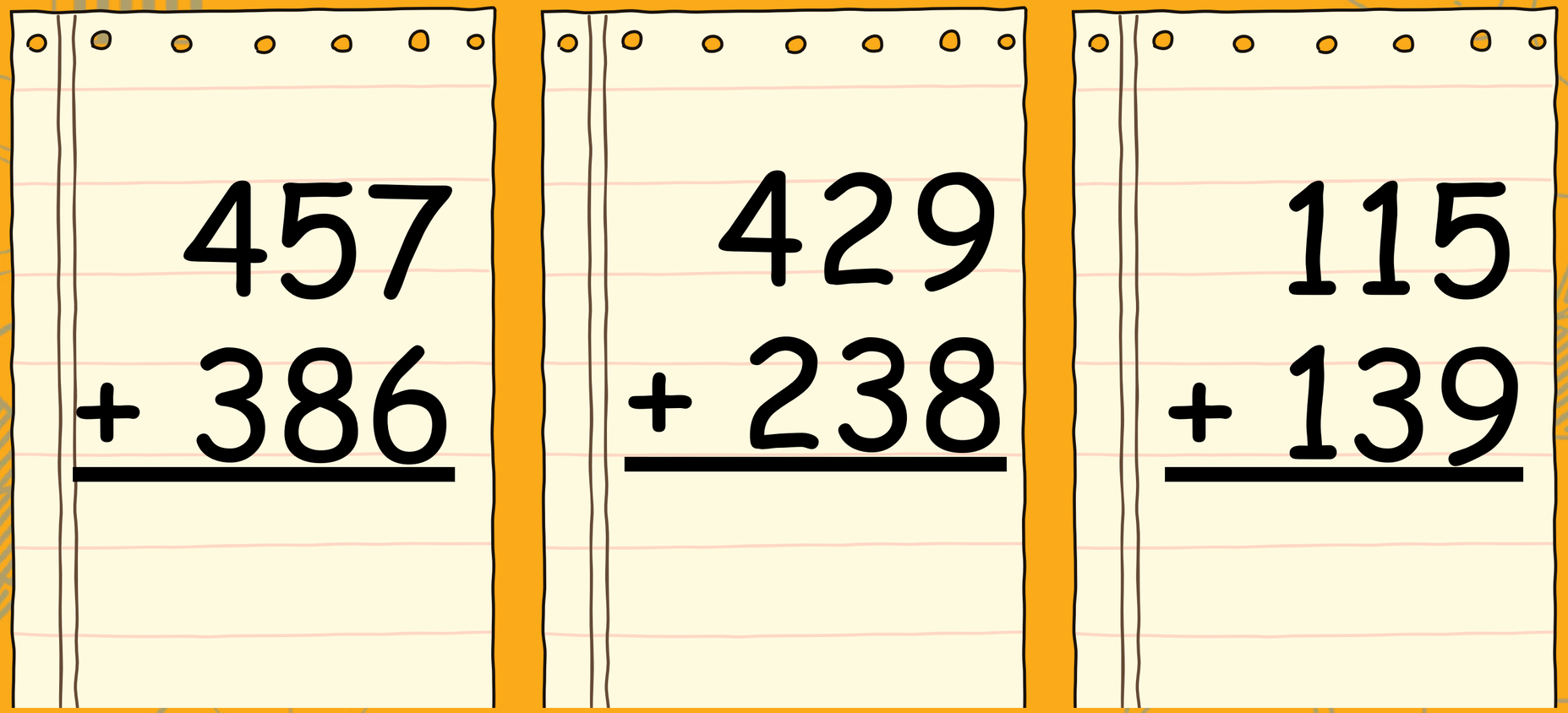
Jason collected 43 shells in the morning and 13 shells in the afternoon. 19 shells were broken. How many were NOT broken?

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



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

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

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

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?

$$34 + 65 + 29 + 14 =$$

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?

3×12

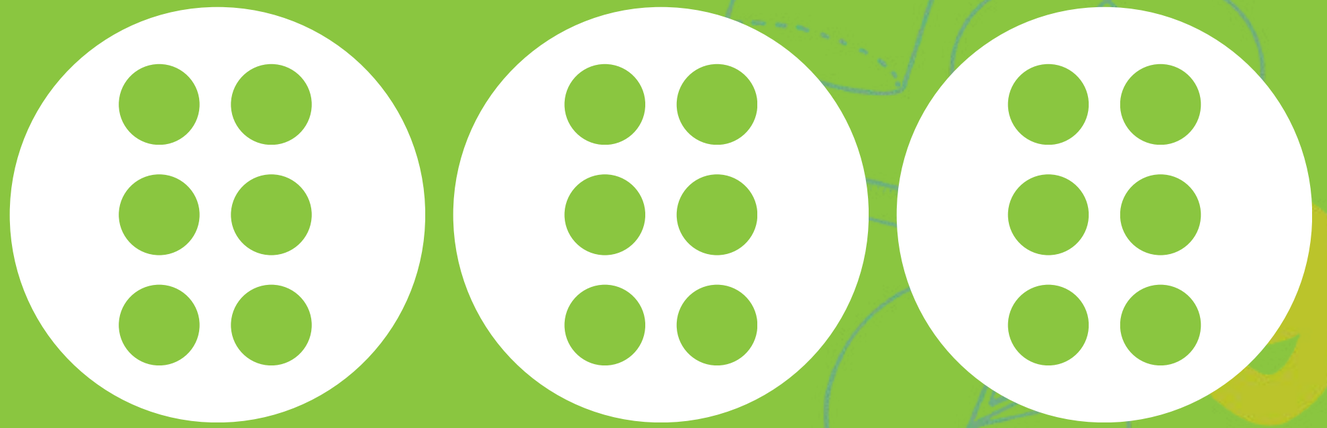
$12 \div 3$

3×4

$12 \div 4$

Modeling Division with Pictures

$3 \times 6 =$ _____



$18 \div 3 =$ _____

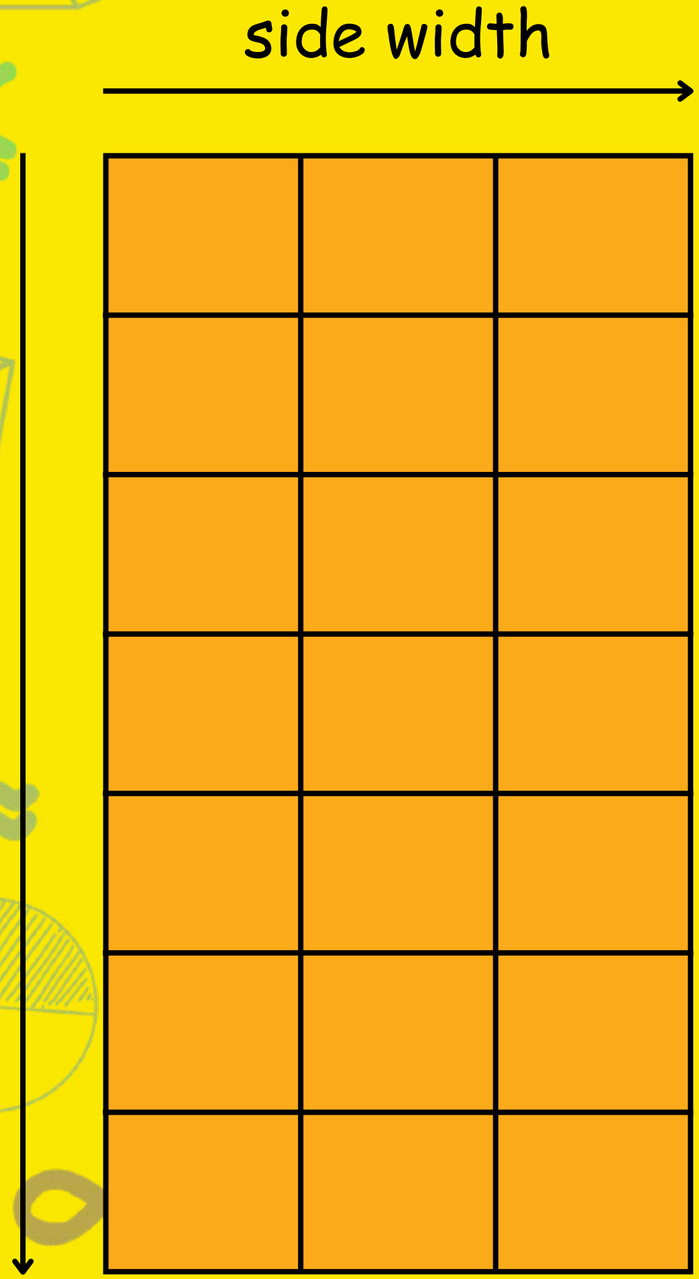
Solve for the missing numbers.

$3 \times ____ = 9$

$10 \times ____ = 80$

$12 \div ____ = 3$

$14 \div ____ = 2$



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.

3 ft.

3 ft.

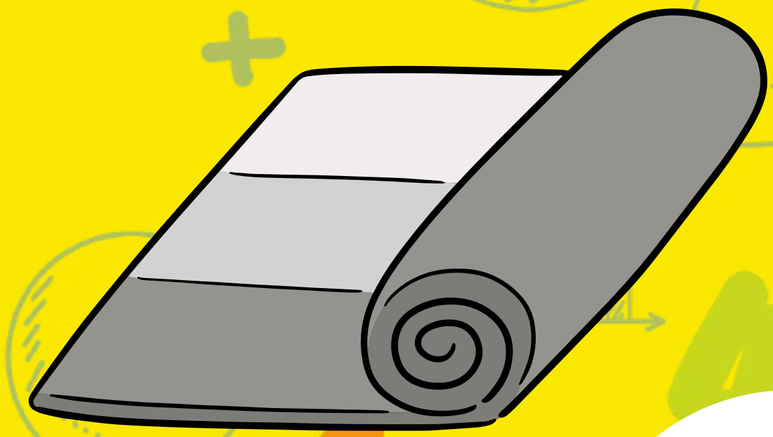
closet

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 <u>ten</u>.

- 62
- 138
- 4,309

Round to the nearest <u>hundred</u>.

- 172
- 729
- 3,820

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

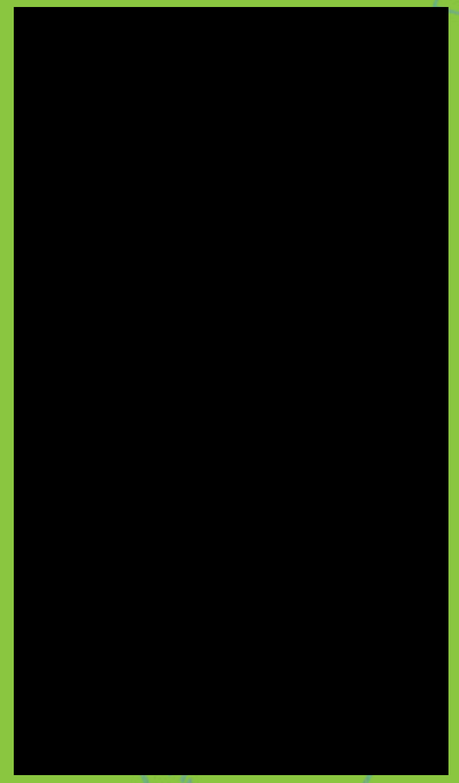
$$\begin{array}{r} 329 \\ -186 \\ \hline \end{array}$$

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

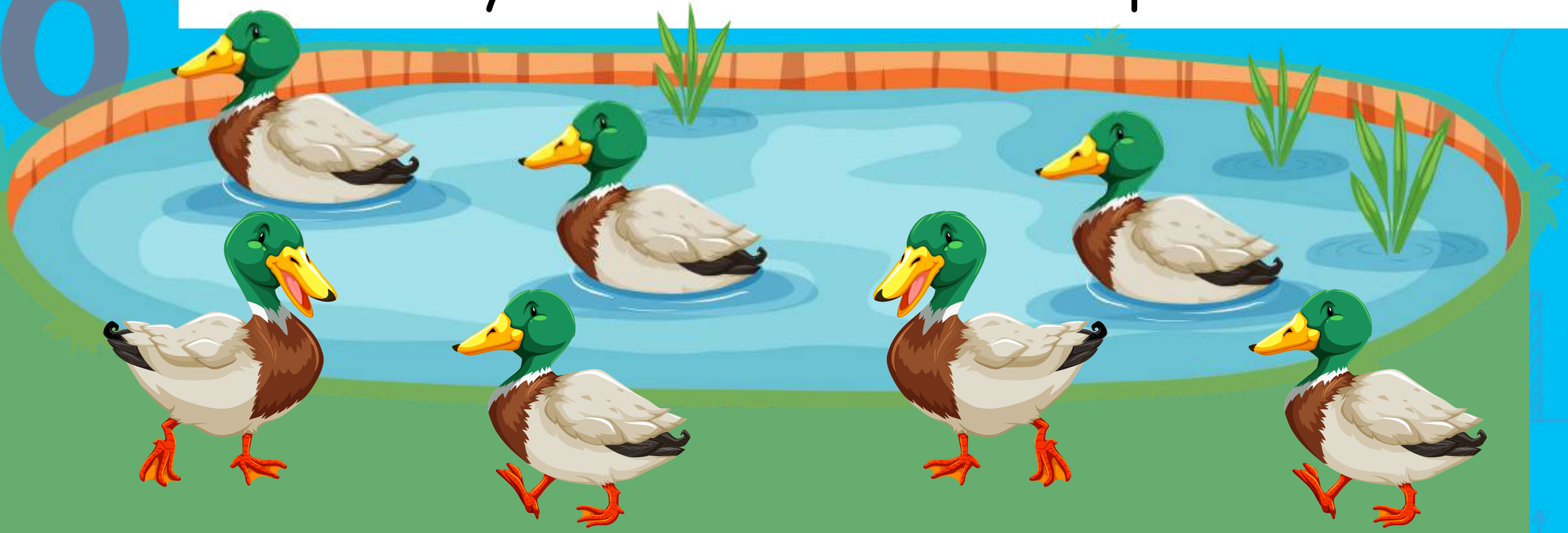
The perimeter of the pink shape is 14 inches.
What is the perimeter of the blue shape?

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?

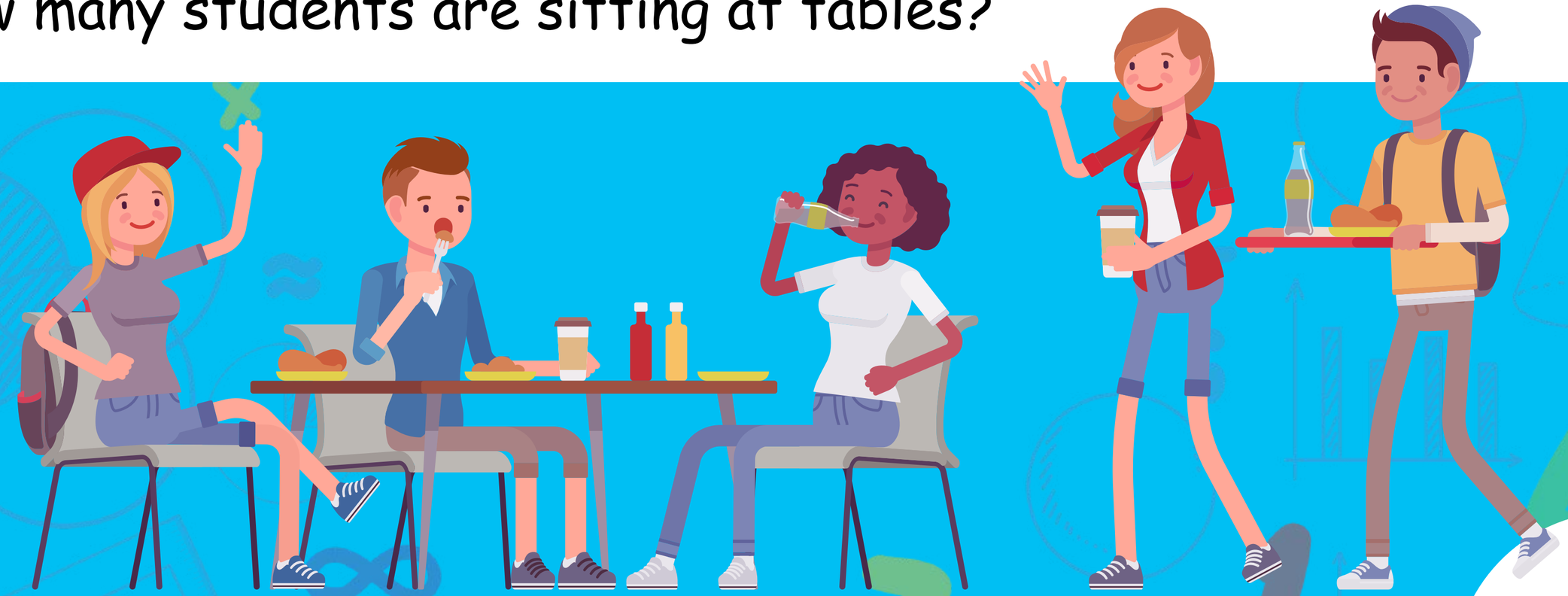
Perimeter= 20 feet



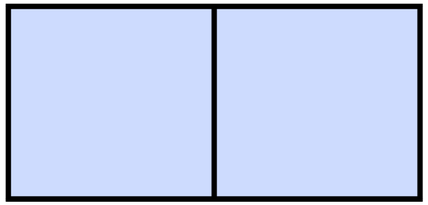
There were 125 ducks on the pond. 105 ducks joined them. After a couple of hours, 135 ducks flew away. How many ducks are now on the pond?

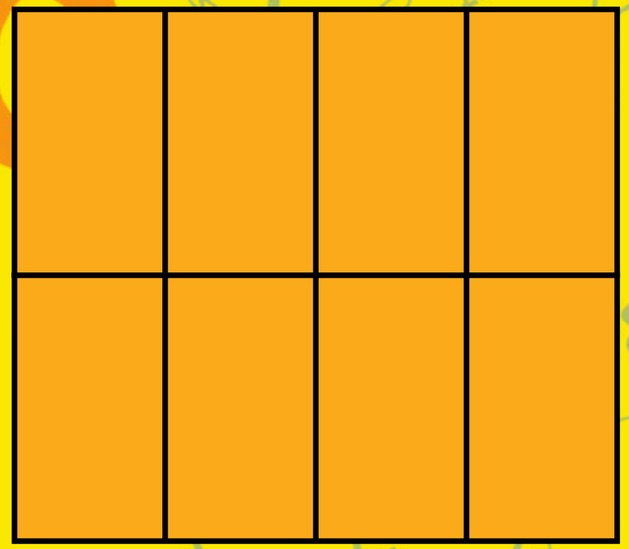


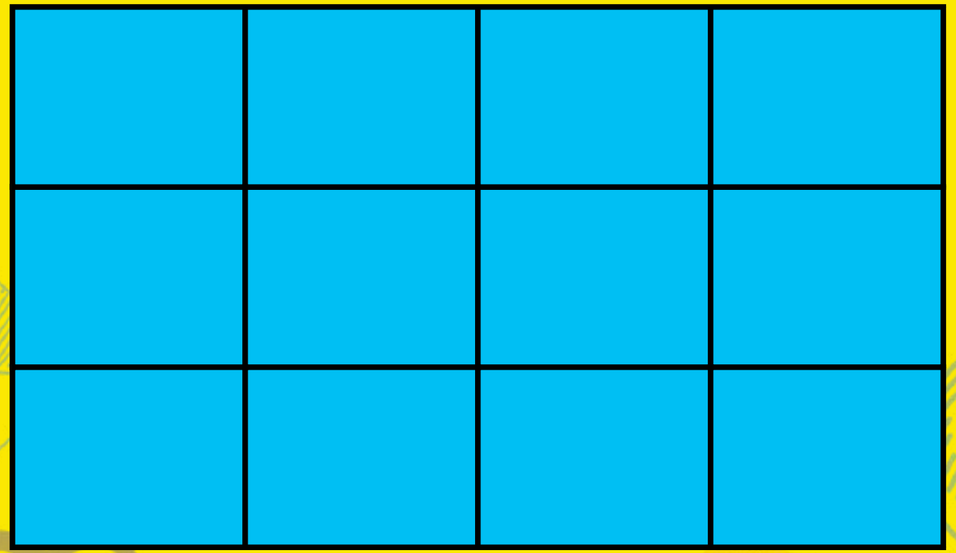
There are 8 tables in the lunchroom. Three students sit at each table. Two tables do not have any students sitting at them.
How many students are sitting at tables?

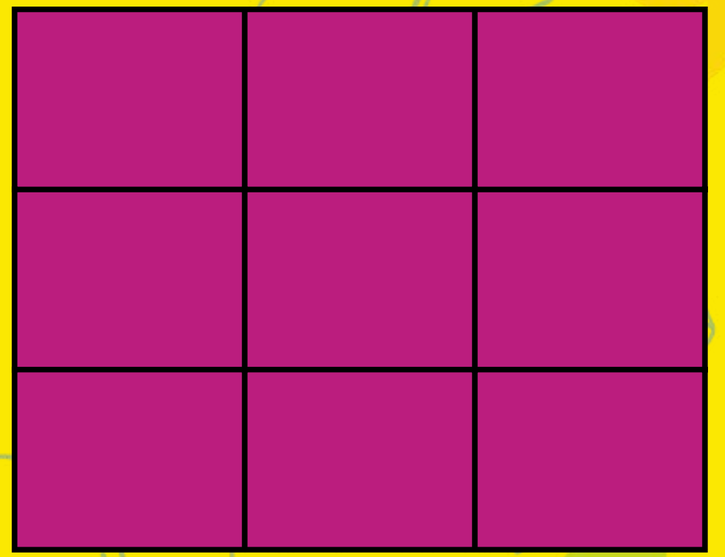


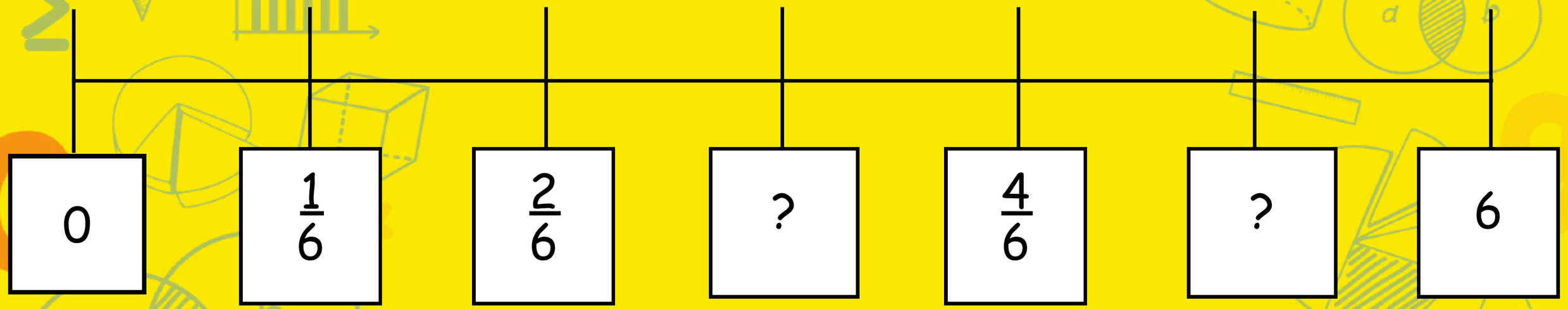
This shape is split into two equal parts or two halves. How are the shapes below split?





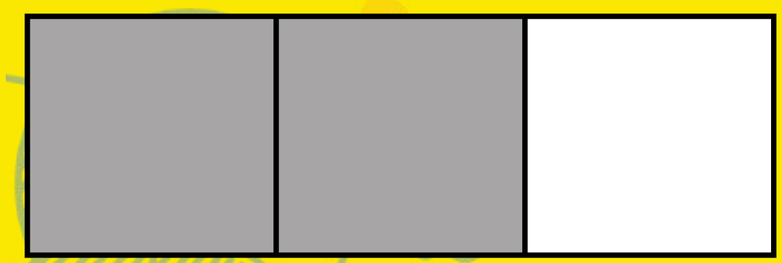


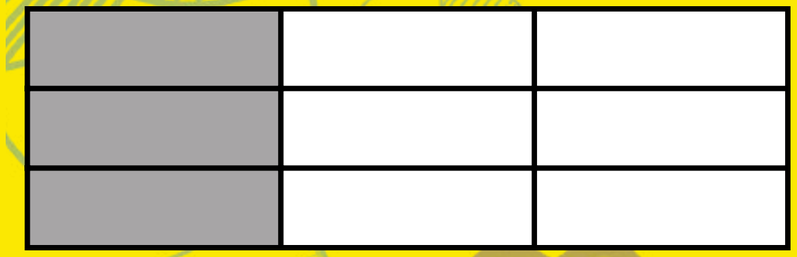



0
1/6
2/6
?
4/6
?
6

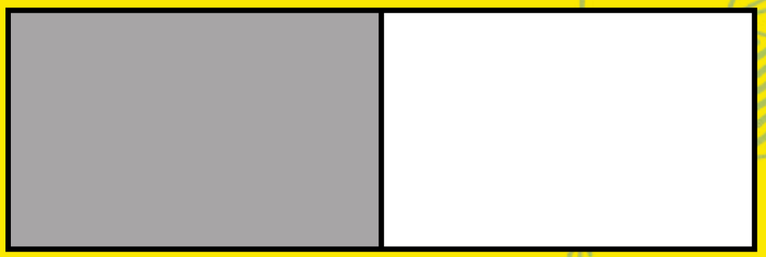
Match the equivalent fractions.

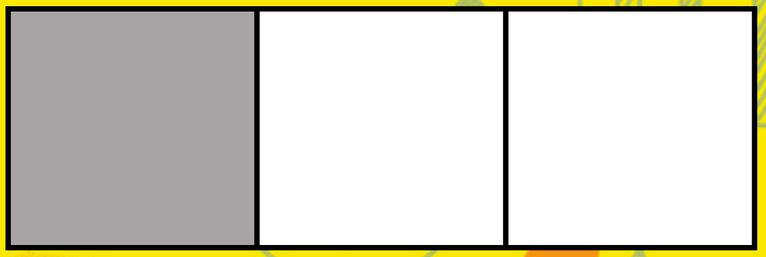
1.

2. 

3. 

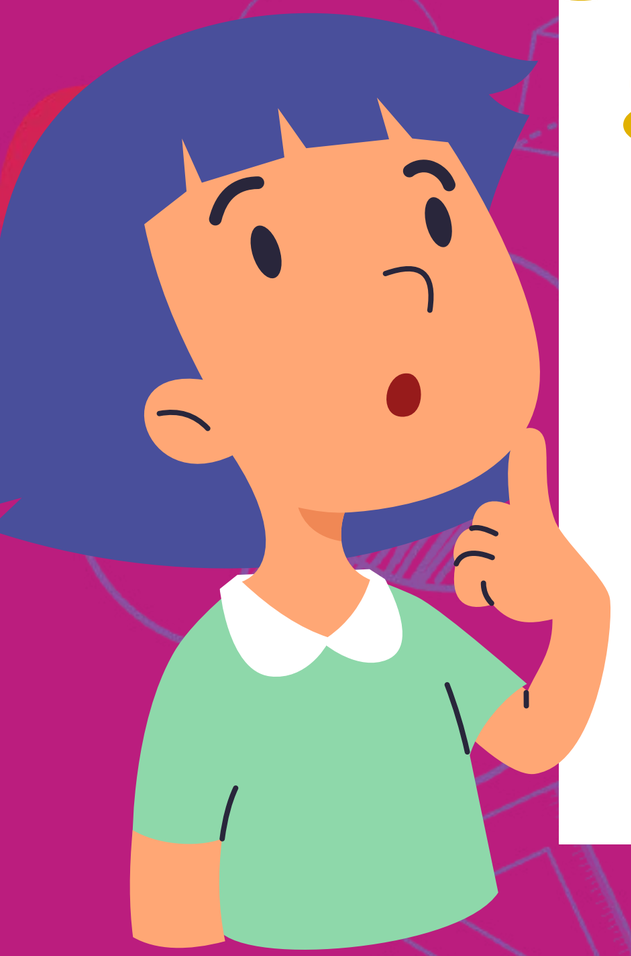
a.

b. 

c. 

Place Value to the Millions

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.

5,134 + 972 = _____

8,275 + 3,642 = _____

5,671 - 860 = _____

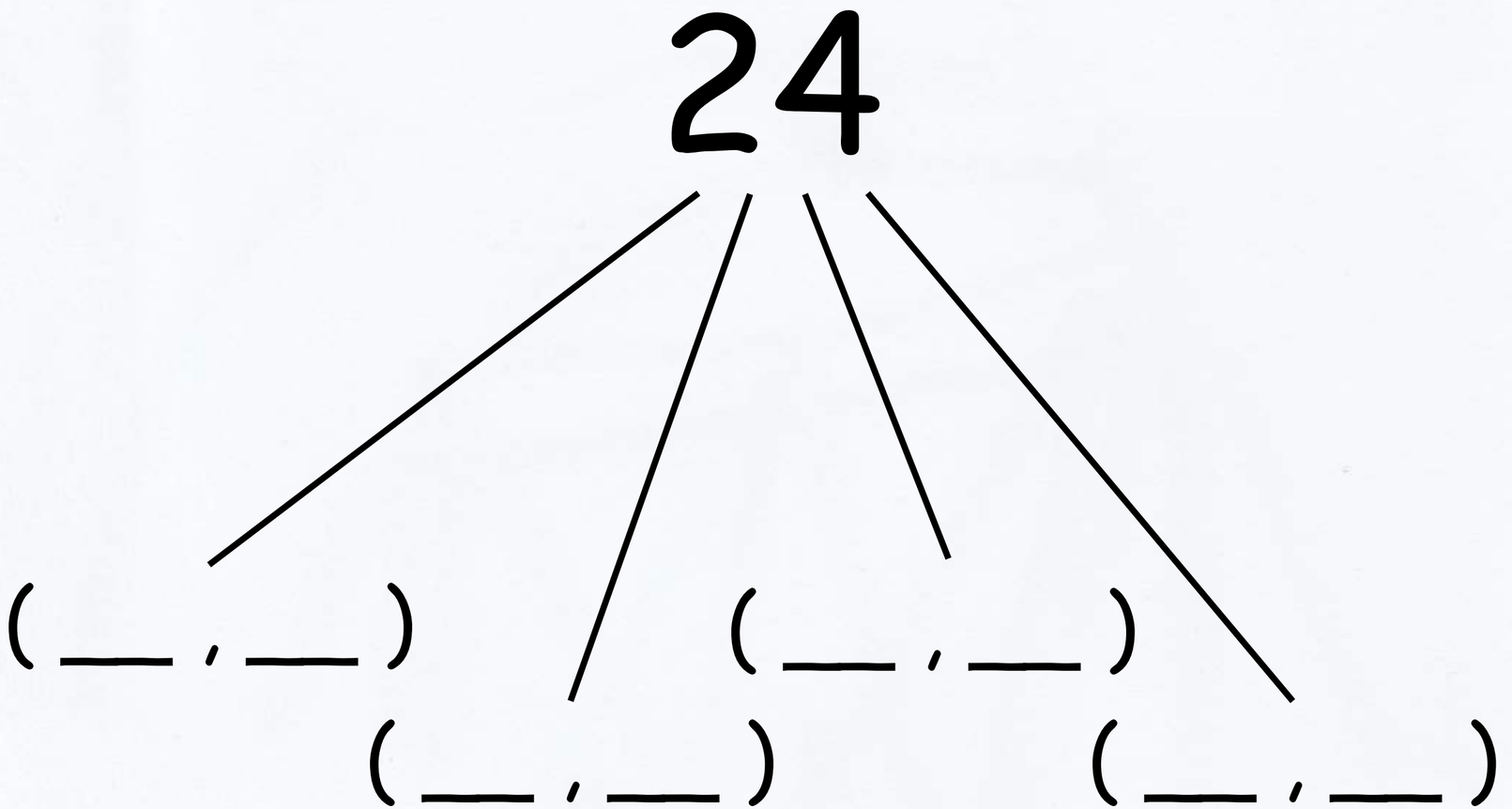
4,201 - 2,579 = _____

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
(__ , __)
(__ , __)
(__ , __)
(__ , __)

814 x 5 = _____

621 x 4 = _____

24 x 36 =_____

752 ÷ 4 = ____

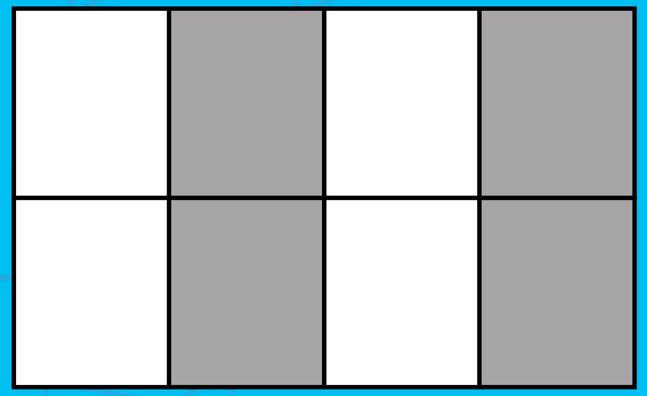
273 ÷ 3 = ____

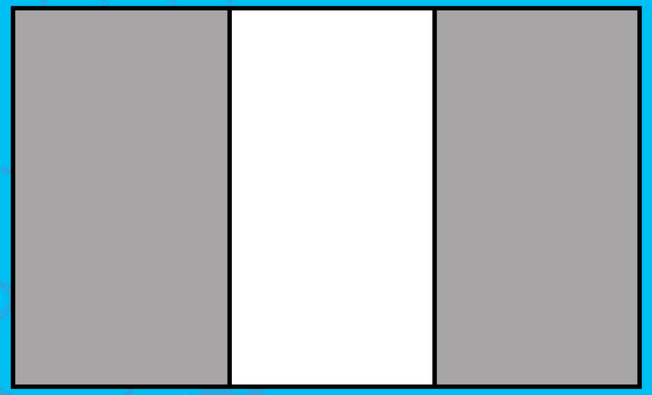
436 ÷ 8 = ____

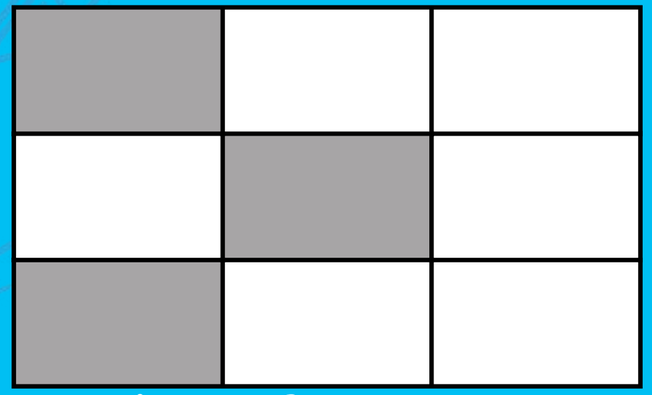
Two-Step Word Problem

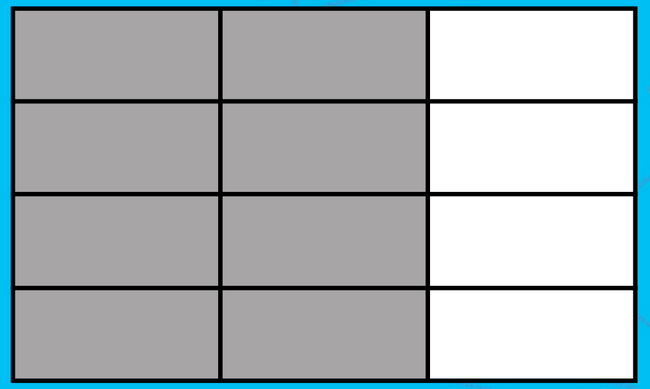
A furniture company has 14 workers and each worker makes 52 couches a day. If each delivery truck can only carry 5 couches at a time, how many trucks will the furniture company need to deliver all of the couches?

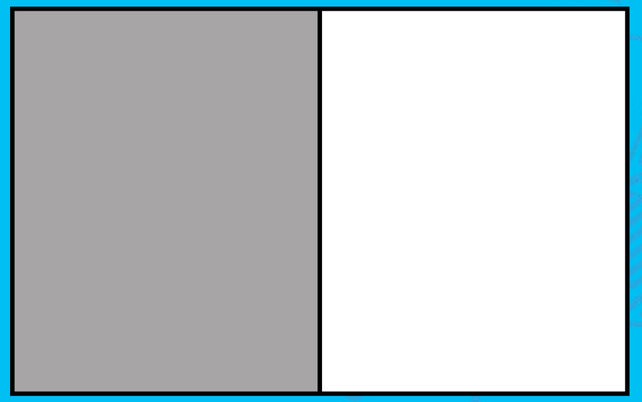
1. Write the fraction for the shaded area for all 6 rectangles.

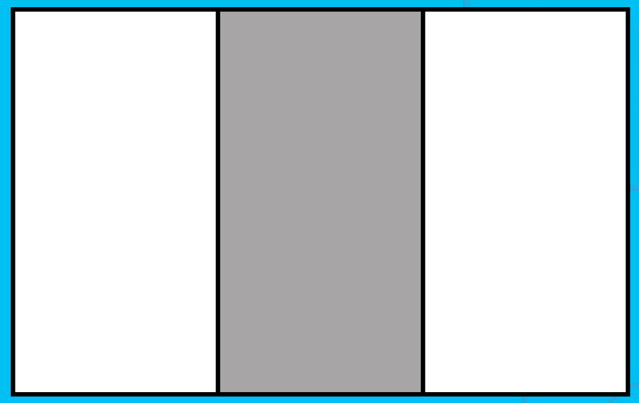
1. 

2. 

3. 

a. 

b. 

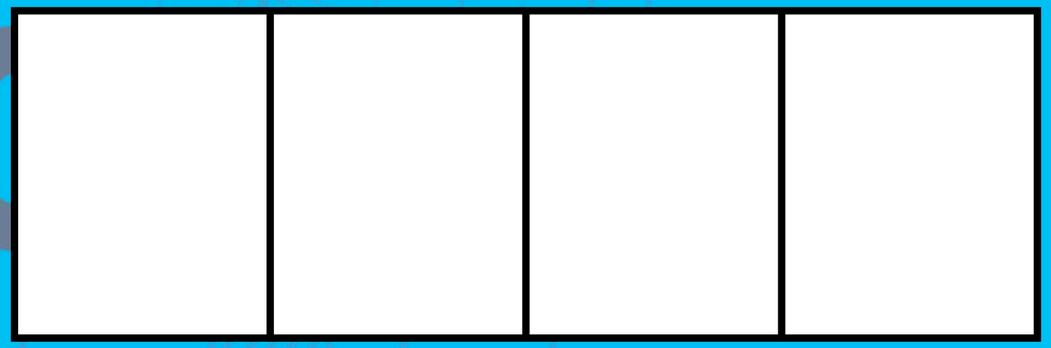
c. 

2. Match the equivalent fractions.

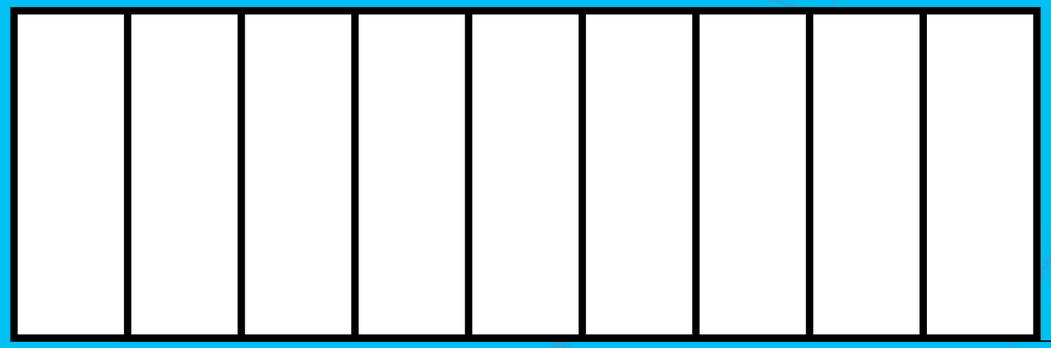
Denise ate $\frac{3}{4}$ of a cake.

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

Who ate more?



Denise



Tammy

Adding and Subtracting Mixed Numbers

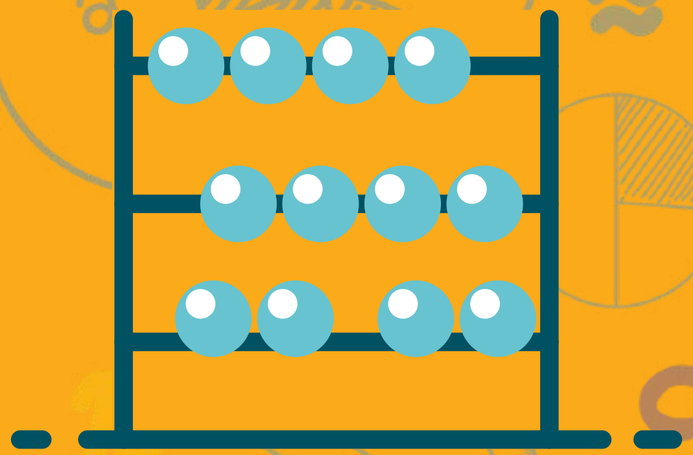
$1\frac{2}{4} + 3\frac{3}{4} =$

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

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

Place Value Patterns

3,482,956



23,479 x 100 =

6,190 x 1,000 =

32,891,900 ÷ 10 =

12,340,000 ÷ 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

$32 \times 24 =$

$406 \times 135 =$

$324 \times 22 =$

273 ÷ 3=

752 ÷ 25=

2,359 ÷ 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?

Place Value Patterns in Decimals

$0.5 \times 10 =$

$.35 \times 10 =$

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

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

8.2̲45 rounded to the nearest tenth is 8.2 or 8.200.

- Round 6.74̲3 to the nearest hundredth.
- Round 4̲.531 to the nearest one.
- Round .4̲12 to the nearest tenth.

Adding and Subtracting with Decimals

$1.85 + 2.41 =$

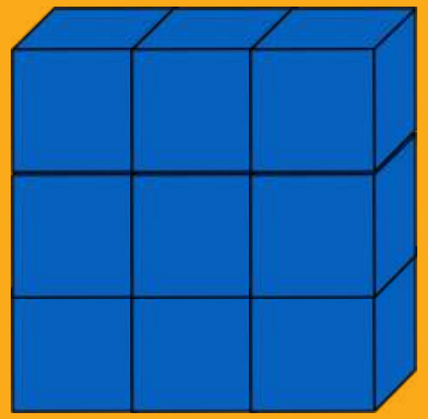
$25.67 + 76.52 =$

$5.19 - 3.64 =$

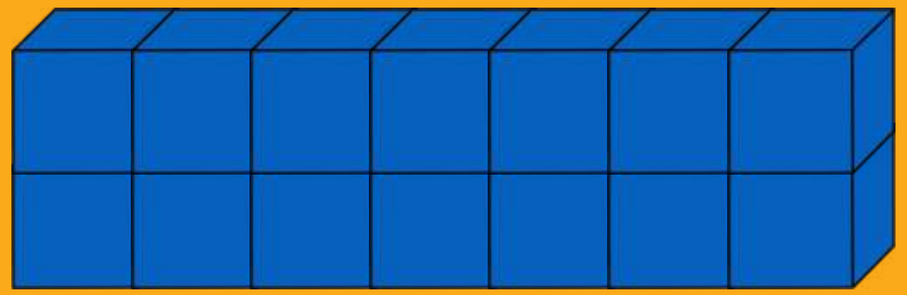
$8.13 \times 45 =$

$7.04 \times 57 =$

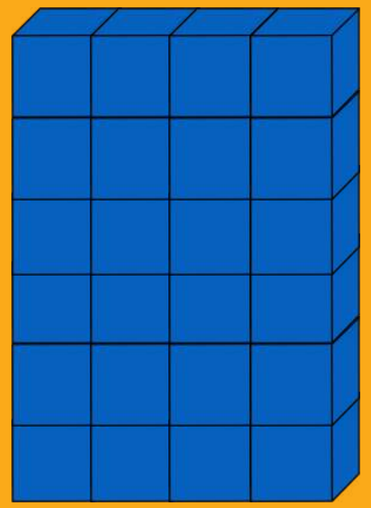
$35.35 \div 2 =$



= 9 cubic units

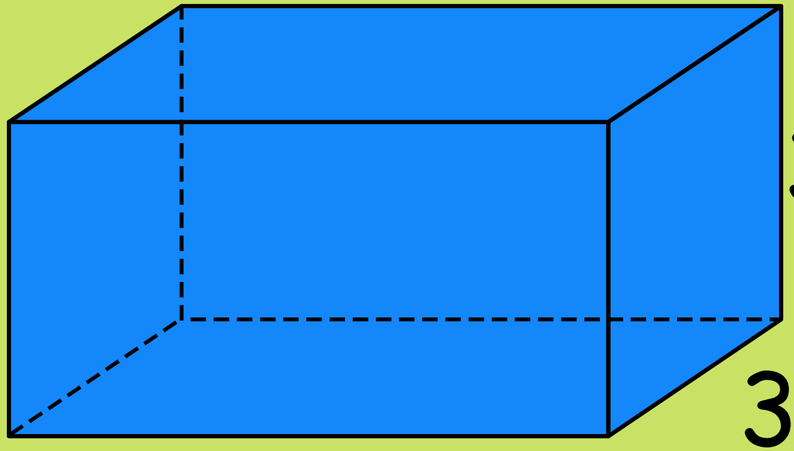


= ___ cubic units

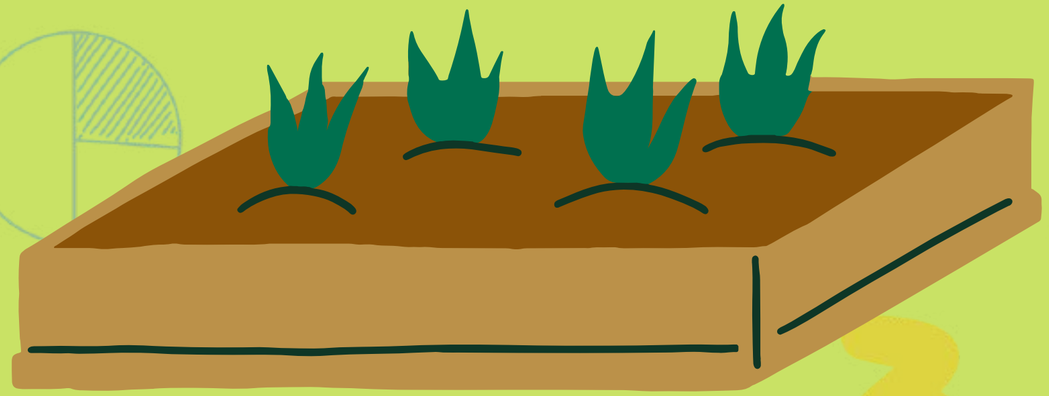


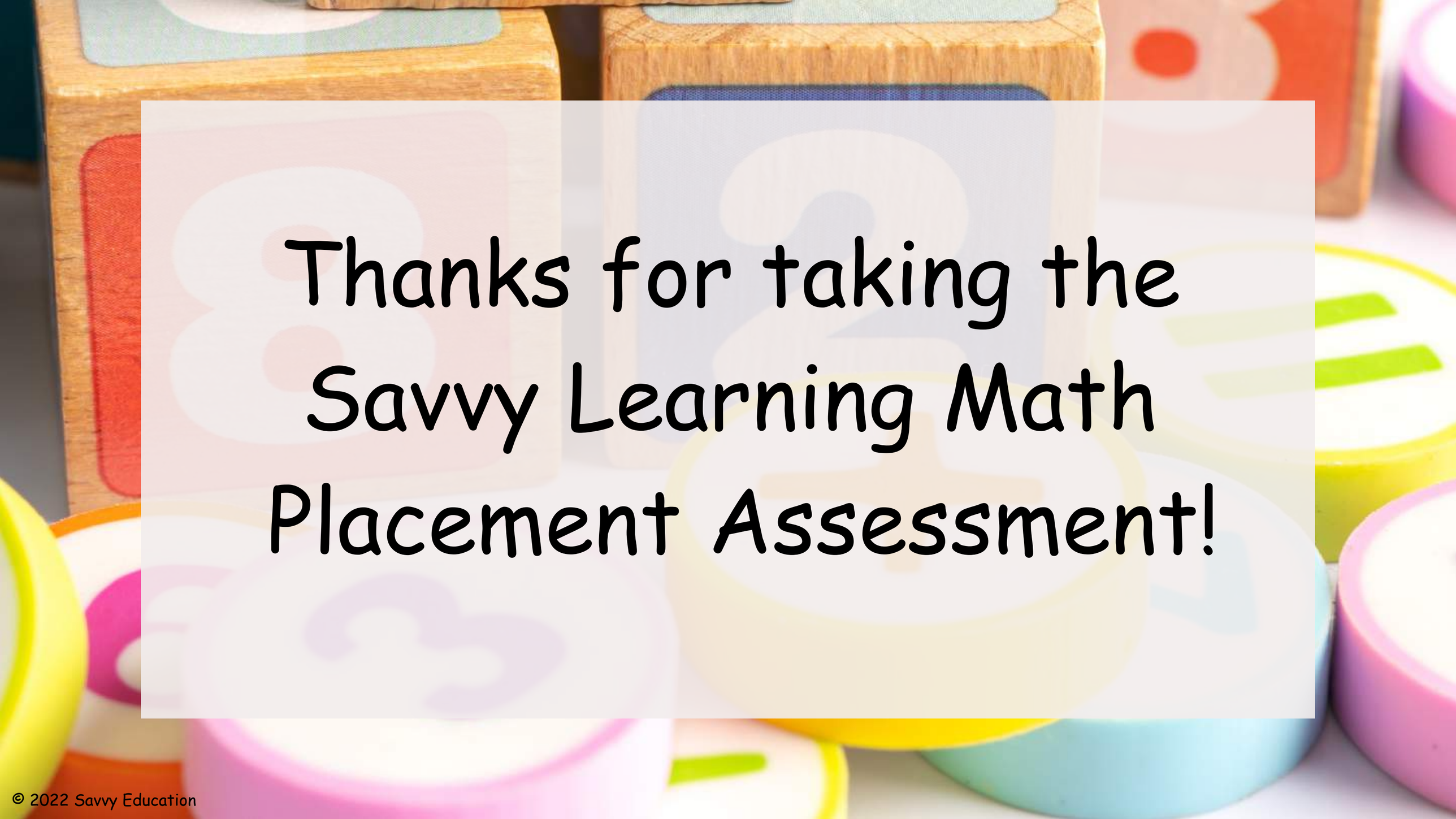
= ___ cubic units

What is the volume?



June wants a garden. She builds a planter box that measures 6 ft length and 4 ft width. June fills the planter box with soil 3 ft deep. What is the volume of soil in June's planter box?





Thanks for taking the Savvy Learning Math Placement Assessment!

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