Name: _____

Summer Week 1 Grade 6 Day 1

1. Fill in the missing number:

$$\begin{array}{r} 8\ 6 \\ \times\quad 4\ 9 \\ \hline 7\ 7\ 4 \\ +\ \square\,,\square\,\square\,\square \\ \hline 4,2\ 1\ 4 \end{array}$$

2. Fill in the missing number:

$$\begin{array}{r} 4\ 4 \\ \times\ 2\ 2 \\ \hline 8\ 8 \\ +\ 8\ 8\ 0 \\ \hline \square\,\square\,\square \end{array}$$

3. Fill in the missing number:

$$\begin{array}{r} 5\ 0 \\ \times\quad 9\ 9 \\ \hline \square\,\square\,\square \\ +\ 4,5\ 0\ 0 \\ \hline 4,9\ 5\ 0 \end{array}$$

4. Fill in the missing number:

$$\begin{array}{r} 30 \\ \times\ 33 \\ \hline 90 \\ +\ 900 \\ \hline \square \end{array}$$

5. Fill in the missing number:

$$\begin{array}{r} 21 \\ \times\ 31 \\ \hline 21 \\ +\ \square \\ \hline 651 \end{array}$$

Name: _____

Summer Week 1 Grade 6 Day 2

1. Read the story.

   Colleen and her friends painted 5 small rocks and 13 big rocks for their school's rock garden. There were 6 friends, including Colleen, and each friend painted the same number of rocks.

   Which expression tells you the number of rocks each person painted?

$(5 + 13) - 6$	$(5 + 13) \div 6$

2. Read the story.

   Each of the fifth-grade classrooms is getting 4 green frogs and 2 yellow frogs. There are 6 fifth-grade classrooms.

   Which expression tells you the total number of frogs?

$(4 + 2) \div 6$	$(4 + 2) \times 6$

3. Read the story.

Mr. and Mrs. Carson spent $500 to buy 5 tickets to their favorite amusement park. Each ticket cost the same amount of money.

Which expression tells you the cost of each ticket?

$500 ÷ 5	$500 × 5

4. Read the story.

Heather went to Game Zone to eat pizza and play arcade games. She played some short games that cost her a total of 27 game credits. Then, she played 16 longer games that each cost her 5 game credits.

Which expression tells you how many credits Heather spent in all?

27 + (16 + 5)	27 + (16 × 5)

5. Read the story.

Walter brings $30 to the movie theater. He spends $14 on a ticket to see the newest superhero movie.

Which expression tells you how much money Walter has left?

$30 − $14	$30 + $14

Name: _____

Summer Week 1 Grade 6 Day 3

1. Complete the sentence.

   ____ is 10 times as much as 0.083.

2. Complete the sentence.

   ____ is 10 times as much as 0.045.

3. Complete the sentence.

   ____ is 10 times as much as 0.91.

4. Complete the sentence.

   ____ is 10 times as much as 0.031.

5. Complete the sentence.

   ____ is 10 times as much as 0.48.

Name: _____

Summer Week 1 Grade 6 Day 4

1. On an overnight camping trip, the Adventure Scouts could choose to sleep in a cabin, in a tent, or outside under the stars. A total of 115 scouts went on the trip. Twice as many scouts slept in a cabin as slept in a tent. The same number of scouts slept outside as slept in a cabin.

   How many Adventure Scouts slept outside?

   ☐ scouts

2. Greg's Grocery Store placed an order for yogurt. The store ordered 1,020 cartons of yogurt. Each carton ordered was blueberry, peach, strawberry, or lemon. The store ordered twice as many cartons of blueberry yogurt as peach. They ordered twice as many strawberry cartons as lemon ones. They ordered twice as many lemon cartons as blueberry cartons.

   How many cartons of strawberry yogurt did the store order?

   ☐ cartons of strawberry yogurt

3. Camilla, Jayla, and Trevor went shopping for school supplies. They spent $119 altogether. Camilla spent twice as much money as Jayla. Trevor spent twice as much money as Camilla.

   How much money did Camilla spend on school supplies?

   $ ☐

4. Dylan conducted a survey asking people to pick their favorite sport among soccer, swimming, basketball, and hockey. He surveyed 300 people. Twice as many people picked soccer as picked swimming. Basketball was chosen twice as often as hockey. Twice as many people liked swimming as liked basketball.

How many people chose soccer as their favorite sport?

_____ people

5. A farmer and his family planted 1,911 berry plants! They planted twice as many blackberry plants as raspberry plants. The family planted 3 times as many strawberry plants as blackberry plants. They planted twice as many blueberry plants as blackberry plants.

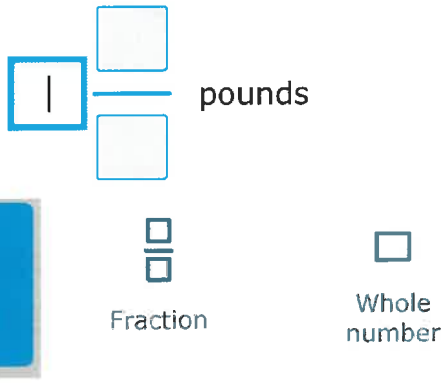
How many strawberry plants did the family plant?

_____ strawberry plants

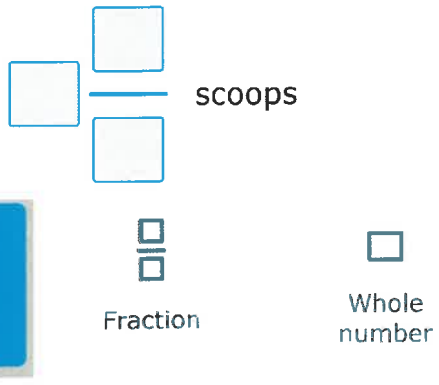
Name: _____

Summer Week 1 Grade 6 Day 5

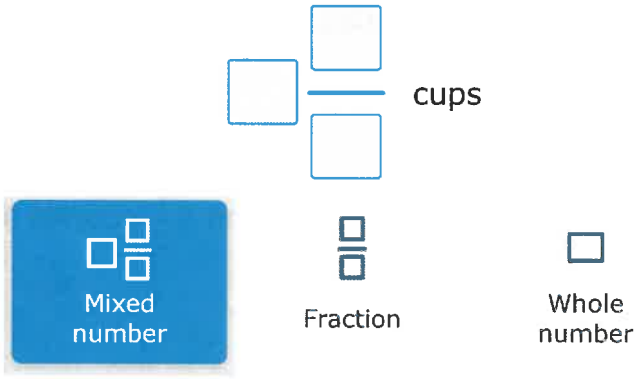
1. Aubrey made a fruit salad with $\frac{5}{6}$ of a pound of melon and $5\frac{1}{2}$ pounds of berries. How many pounds of fruit did Aubrey use in all?



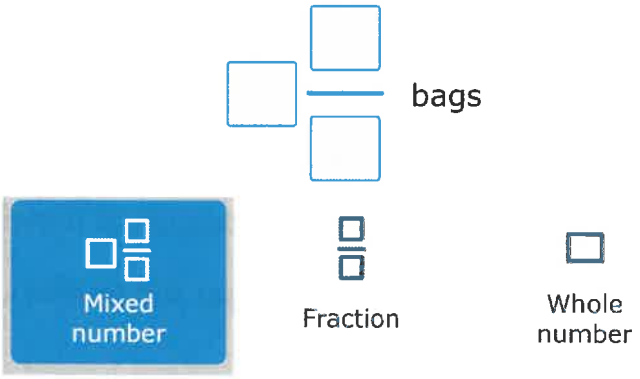
2. While making desserts for a bake sale, Sophie used $3\frac{2}{3}$ scoops of brown sugar as well as $1\frac{1}{2}$ scoops of white sugar. How much more brown sugar did Sophie use?



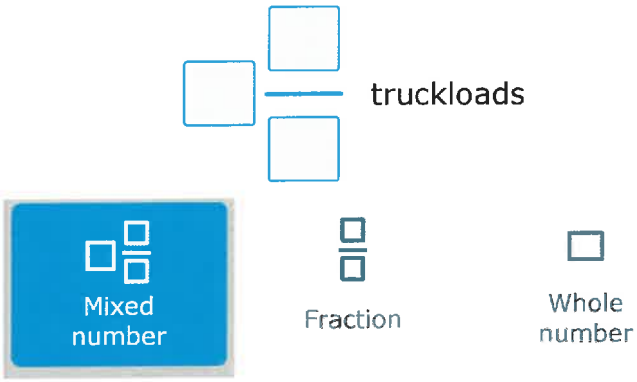
3. Josh filled a measuring cup with $2\frac{1}{6}$ cups of vegetable oil. Then he poured $\frac{1}{2}$ of a cup of the oil into a frying pan. How much oil is left in the measuring cup?



4. In preparation for a picnic, Kirk made a salad with $3\frac{7}{12}$ bags of iceberg lettuce and $\frac{1}{4}$ of a bag of Romaine lettuce. How many bags of lettuce did Kirk use in all?



5. A construction company is digging a pit to build the foundation of a house. At the end of the first day, the company had hauled away $1\frac{3}{4}$ truckloads of dirt. On the second day, they hauled away 1 truckload. How many truckloads did they haul away in all?



Name: _____

Summer Week 2 Grade 6 Day 6

1. Which expression will give a better whole-number estimate for 246 ÷ 86?

240 ÷ 80	210 ÷ 30

Use the expression you picked to estimate the quotient.

246 ÷ 86 is about ____.

2. Which expression will give a better whole-number estimate for 110 ÷ 18?

100 ÷ 20	160 ÷ 20

Use the expression you picked to estimate the quotient.

110 ÷ 18 is about ____.

3. Which expression will give a better whole-number estimate for 1,060 ÷ 21?

1,100 ÷ 30	1,000 ÷ 20

Use the expression you picked to estimate the quotient.

1,060 ÷ 21 is about ____.

4. Which expression will give a better whole-number estimate for 3,411 ÷ 68?

3,400 ÷ 70	3,500 ÷ 70

Use the expression you picked to estimate the quotient.

3,411 ÷ 68 is about ____.

5. Which expression will give a better whole-number estimate for 1,961 ÷ 23?

2,000 ÷ 20	1,900 ÷ 30

Use the expression you picked to estimate the quotient.

1,961 ÷ 23 is about ____.

Name: _____

Summer Week 2 Grade 6 Day 7

1. Over the summer, Molly spent a week with her grandparents. It was so hot! This table shows the high temperatures recorded by their digital thermometer for three days.

Day	Temperature (°F)
Monday	102.7
Tuesday	102.3
Wednesday	102.5

Which day was the hottest?

Monday | Tuesday | Wednesday

2. There are three boys on the track team who run the 100-meter dash. This table shows their times in the 100-meter dash from the last track meet.

Runner	Time (seconds)
Gary	12.87
Diego	12.94
Reggie	12.79

Which statement is true?

Reggie ran slower than Gary.

Gary ran faster than Diego.

Diego ran faster than Reggie.

3. Kaylee got some money for her birthday and wants to buy a new smartphone. She wants to make sure that her new phone isn't too big. She looked at three models and found a table that compares their heights.

Smartphone model	Height (inches)
Sublime	5.65
Transcend	5.94
Lightning	5.81

Which statement is true?

- The Lightning is the shortest of the phones.
- The Sublime is taller than the Lightning.
- The Transcend is taller than the Sublime.

4. Kimberly is interested in her local weather. She bought a digital rain gauge to track how much rain falls. Yesterday, the gauge showed that 1.26 inches of rain fell.

Was the rainfall closer to 1.2 inches or 1.3 inches yesterday?

- 1.2 inches
- 1.3 inches

5. Lisa bought a new computer monitor with a width of 24.42 inches.

Is the width of the computer monitor closer to 24.4 inches or 24.5 inches?

24.4 inches	24.5 inches

Name: _____

Summer Week 2 Grade 6 Day 8

1. In Jackson's grade, 1/2 of the students have a sister. Of the students who have a sister, 1/3 also have a brother. What fraction of the students in Jackson's grade have both a sister and a brother?

   Write your answer as a fraction or as a whole or mixed number.

   ☐ of the students

2. At Madison College, 1/8 of the students are enrolled in an art class. Of the students enrolled in an art class, 2/5 are enrolled in a painting class. What fraction of the students at Madison College are enrolled in a painting class?

   Write your answer as a fraction or as a whole or mixed number.

   ☐ of the students

3. At Belle's Arcade, 1/4 of the games are racing games. Among the racing games, 2/3 are motorcycle-racing games. What fraction of the games at Belle's Arcade are motorcycle-racing games?

   Write your answer as a fraction or as a whole or mixed number.

   ☐ of the games

4. Scott operates a hot dog stand. On Wednesday he used 1/5 of a bag of hot dog buns. On Thursday he used 3/4 as many hot dog buns as on Wednesday. How many bags of hot dog buns did Scott use on Thursday?

Write your answer as a fraction or as a whole or mixed number.

_____ bags

5. The dolphins at the Lewis Aquarium are fed 1/2 of a bucket of fish each day. The sea otters are fed 1/3 as much fish as the dolphins. How many buckets of fish are the sea otters fed each day?

Write your answer as a fraction or as a whole or mixed number.

_____ buckets

Name: _____

Summer Week 2 Grade 6 Day 9

1. Find the missing number.

$\square \div 40 = 52$

2. Find the missing number.

$1{,}368 \div \square = 38$

3. Find the missing number.

$1{,}488 \div \square = 31$

4. Find the missing number.

$777 \div 37 = \square$

5. Find the missing number.

$\square \div 36 = 39$

Name: _____

Summer Week 2 Grade 6 Day 10

1. At the end of last week, Ivan had $10.35 in his lunch money account. This week, he bought lunch for $5.75, deposited $15 into his account, and bought lunch for $4.75. What is Ivan's balance now?

   $

2. Louise has a $75 gift card for her favorite toy store. She buys a model car kit for $22.79 and a doll for $19.95. What is the remaining balance on Louise's gift card?

   $

3. This week, Kendra earned $78 from walking dogs. She also had 3 ten-dollar bills, 4 five-dollar bills, 3 quarters, and 6 pennies in her wallet. How much money did Kendra have in all?

   $

4. Ellie got a $20 gift card for the craft store. She bought some chalk markers for $8.79, some yarn for $2.69, and some beads for $6.98. What is the value left on Ellie's gift card?

   $

5. A department store is offering a discount on purchases of $75 or more. Monica sees a pair of sunglasses and a hat that she wants. The sunglasses cost $32.50 and the hat costs $27.95. How much more will Monica need to spend to get the discount?

$

Name: _____

Summer Week 3 Grade 6 Day 11

1. Divide.

$2 \div \frac{1}{2} =$ ☐

2. Divide.

$2 \div \frac{1}{5} =$ ☐

3. Divide.

$3 \div \frac{1}{2} =$ ☐

4. Divide.

$2 \div \frac{1}{4} =$ ☐

5. Divide.

$\frac{1}{3} \div 3 =$

 Name: _____

Summer Week 3 Grade 6 Day 12

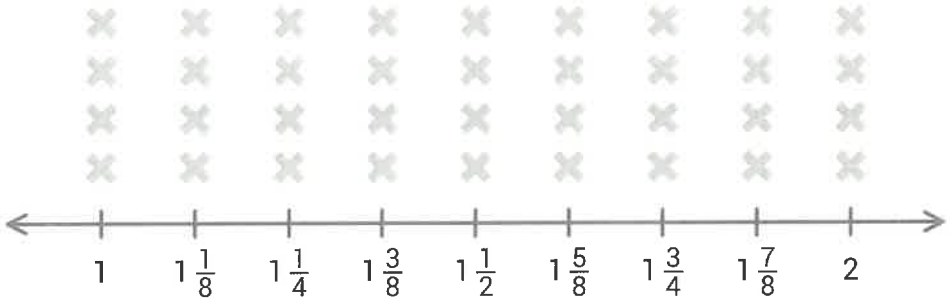
1. For the holidays, Sasha decorated some paper chains with glitter. She kept track of how many containers of glitter she used to make each paper chain.

Amount of glitter (containers)								
$1\frac{3}{8}$	1	$1\frac{3}{8}$	$1\frac{3}{4}$	$1\frac{1}{4}$	1	2	$1\frac{1}{4}$	2

Use the data in the list to complete the line plot below.

Click to select the X's. To clear a column, click on the number line below it.

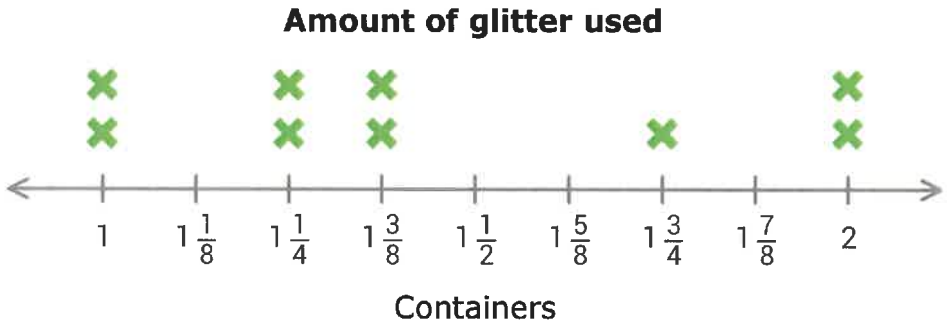
Amount of glitter used



Containers

2. For the holidays, Sasha decorated some paper chains with glitter. She kept track of how many containers of glitter she used to make each paper chain.

Use the line plot to answer the question below.

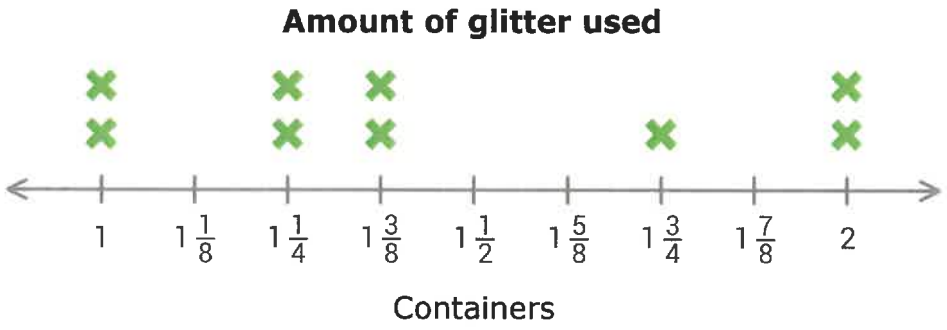


How many paper chains used more than 1 container but less than $1\frac{3}{4}$ containers of glitter?

paper chains

3. For the holidays, Sasha decorated some paper chains with glitter. She kept track of how many containers of glitter she used to make each paper chain.

Use the line plot to answer the question below.



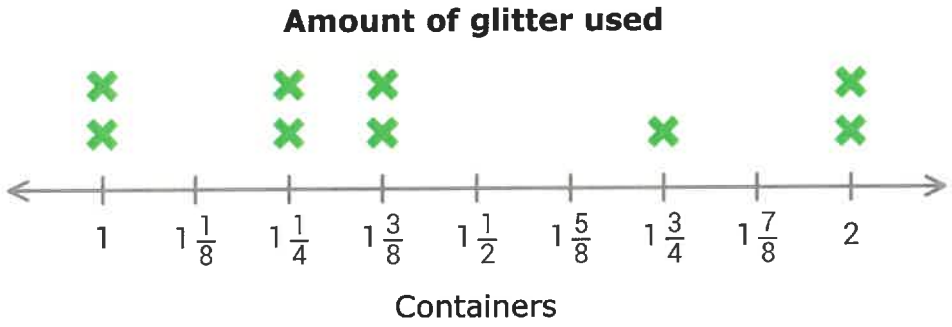
If you combine all the glitter from the paper chains that used exactly $1\frac{3}{8}$ containers of glitter, how much glitter will you have in all?

Write your answer as a fraction, mixed number, or whole number.

containers

4. For the holidays, Sasha decorated some paper chains with glitter. She kept track of how many containers of glitter she used to make each paper chain.

Use the line plot to answer the question below.



What was the total amount of glitter used to make the paper chains?

Write your answer as a fraction, mixed number, or whole number.

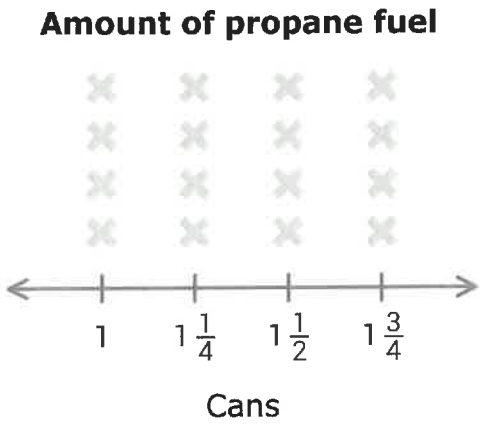
[ ] containers

5. Suzie always looks forward to her family camping trips. On this trip, she started recording how much propane fuel they used during each meal.

Amount of propane fuel (cans)						
$1\frac{1}{2}$	$1\frac{3}{4}$	$1\frac{1}{4}$	$1\frac{3}{4}$	$1\frac{3}{4}$	$1\frac{1}{2}$	1

Use the data in the list to complete the line plot below.

Click to select the X's. To clear a column, click on the number line below it.



Name: _____

Summer Week 3 Grade 6 Day 13

1. At the candy store, Carly buys caramel cubes in a box shaped like a rectangular prism. Each caramel has a volume of 1 cubic centimeter. When Carly opens the box, she sees a layer of 24 caramels filling the top of the box. If the box has 4 layers of caramels in all, what is its volume?

   ____ cubic centimeters

2. Polly works on a farm where she picks pumpkins and places them into crates for selling. Each crate is cube-shaped with a volume of one cubic meter. The crates are placed on a large wagon that is shaped like a rectangular prism. The bottom of the wagon can be completely covered by a layer of 18 crates. If 2 layers of crates will fill the entire wagon, what is its volume?

   ____ cubic meters

3. A 3-D jigsaw puzzle becomes a cube with a volume of 1 cubic foot when it is solved. Mr. Ruiz stores several of these puzzles in a storage nook in his classroom. The nook is shaped like a rectangular prism and has a height of 3 feet. A layer of 8 puzzles will completely cover the floor of the nook. What is the volume of the storage nook?

   ____ cubic feet

4. Dylan unloads a shipment of footballs at the sporting goods store where he works. Each football is packed in a cube-shaped box that has a volume of one cubic foot. He is stacking them in a bin shaped like a rectangular prism that is 3 feet tall. If Dylan fills the bottom of the bin with 18 boxes, how many boxes will fill the whole bin?

boxes

5. Quinn's Quarry cuts stone into cubes that each have a volume of one cubic meter. Then, they ship the stone cubes in a container shaped like a rectangular prism with a volume of 108 cubic meters. If the floor of the shipping container can be completely covered with a layer of 36 stone cubes, what is its height?

meters

Name: _____

Summer Week 3 Grade 6 Day 14

1. After 3 hours of steady snowfall, Deb measures how much snow is in her driveway. She finds there is $\frac{1}{2}$ of an inch of snow. How many inches of snow fell each hour?

   Write your answer as a fraction or a whole number.

2. Vincent works at the concession stand during his school's football games. It's cold out, so he is selling hot chocolate. Vincent has $\frac{1}{2}$ of a cup of whipped cream to put on top of 4 hot chocolates. He puts the same amount of whipped cream on each. How many cups of whipped cream does he put on each hot chocolate?

   Write your answer as a fraction or a whole number.

3. Polly and her sister went together to get haircuts. Polly got 3/4 of an inch cut off and her sister got 1/3 of an inch cut off. Compared to her sister, how much more hair did Polly get taken off?

   Write your answer as a fraction or as a whole or mixed number.

   _____ inches

4. On Friday, Leah sold 1 3/4 pitchers of lemonade from her lemonade stand. On Saturday, she sold 1 1/2 times as much lemonade as on Friday. How many pitchers of lemonade did Leah sell on Saturday?

Write your answer as a fraction or as a whole or mixed number.

_____ pitchers

5. William ran 10 1/3 miles and walked 8 miles. How much farther did William run than walk?

Write your answer as a fraction or as a whole or mixed number.

_____ miles

Name: _____

Summer Week 3 Grade 6 Day 15

1. Divide.

$0.7 \overline{)\ 8.4}$

2. Divide.

$11.07 \div 0.9 =$ ☐

3. Divide.

$0.15 \overline{)\ 1.35}$

4. Divide.

$4.2 \overline{)\ 88.2}$

5. Divide.

$0.8 \overline{)\,5.76}$

Name: _____

Summer Week 4 Grade 6 Day 16

1. Whitney tried to evaluate the expression $50 \div (12 - 2) \times 8$. Here is her work:

$50 \div (12 - 2) \times 8$

$= 50 \div 10 \times 8$ *Step 1*

$= 5 \times 8$ *Step 2*

$= 40$ *Step 3*

Is Whitney's work correct?

No, Whitney made a mistake in Step 1. Whitney subtracted before she multiplied. The order of operations says to multiply before you subtract.

No, Whitney made a mistake in Step 2. Whitney divided before she multiplied. The order of operations says to multiply before you divide.

Yes, Whitney's work is correct.

2. Antonio tried to evaluate the expression $8 \times [(30 - 9) \div 3]$. Here is his work:

$8 \times [(30 - 9) \div 3]$

$= 8 \times [21 \div 3]$ *Step 1*

$= 8 \times 7$ *Step 2*

$= 56$ *Step 3*

Is Antonio's work correct?

No, Antonio made a mistake in Step 1. Antonio subtracted before he multiplied. The order of operations says to multiply before you subtract.

No, Antonio made a mistake in Step 2. Antonio divided before he multiplied. The order of operations says to multiply before you divide.

Yes, Antonio's work is correct.

3. Carrie tried to evaluate the expression $20 - 16 \div (2 + 2)$. Here is her work:

$20 - 16 \div (2 + 2)$

$= 4 \div (2 + 2)$ *Step 1*

$= 4 \div 4$ *Step 2*

$= 1$ *Step 3*

Is Carrie's work correct?

No, Carrie made a mistake in Step 1. Carrie should have started with the parentheses. Operations inside parentheses need to be done first.

No, Carrie made a mistake in Step 2. Carrie should have divided before she added. The order of operations says to divide before you add.

Yes, Carrie's work is correct.

4. Zack tried to evaluate the expression $11 + 24 \div [4 \times (9 - 7)]$. Here is his work:

$11 + 24 \div [4 \times (9 - 7)]$

$= 11 + 24 \div [4 \times 2]$ *Step 1*

$= 11 + 6 \times 2$ *Step 2*

$= 11 + 12$ *Step 3*

$= 23$ *Step 4*

Is Zack's work correct?

No, Zack made a mistake in Step 1. Zack should have multiplied instead of subtracting. The order of operations says to multiply before you subtract.

No, Zack made a mistake in Step 2. The brackets mean the numbers inside are grouped together. Zack should have multiplied the numbers inside the brackets first.

Yes, Zack's work is correct.

5. Lacey tried to evaluate the expression $36 \div (9 - 5) \times 2$. Here is her work:

$36 \div (9 - 5) \times 2$

$= 36 \div 4 \times 2$ *Step 1*

$= 9 \times 2$ *Step 2*

$= 18$ *Step 3*

Is Lacey's work correct?

No, Lacey made a mistake in Step 1. Lacey subtracted before she multiplied. The order of operations says to multiply before you subtract.

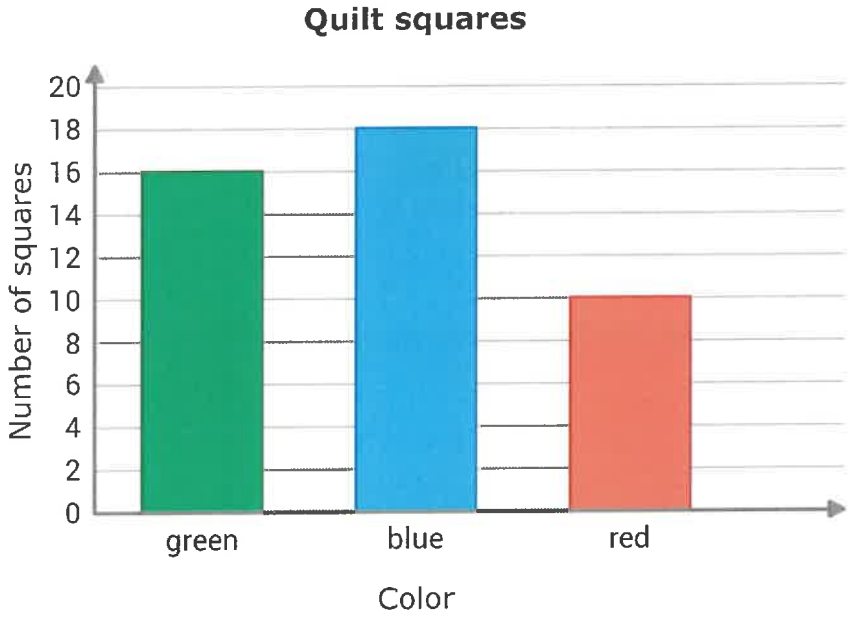
No, Lacey made a mistake in Step 2. Lacey divided before she multiplied. The order of operations says to multiply before you divide.

Yes, Lacey's work is correct.

Name: _____

Summer Week 4 Grade 6 Day 17

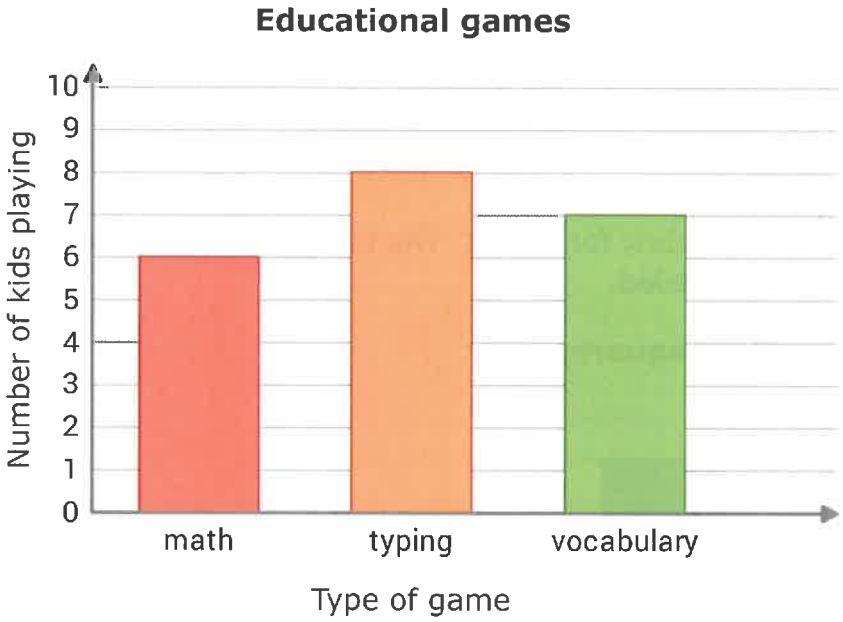
1. Tim helped his grandma cut fabric for a quilt. The bar graph shows how many squares of each color they needed.



Tim and his grandma started with the color they needed the most of. If they split the work in half, how many squares of this color did each of them cut?

squares

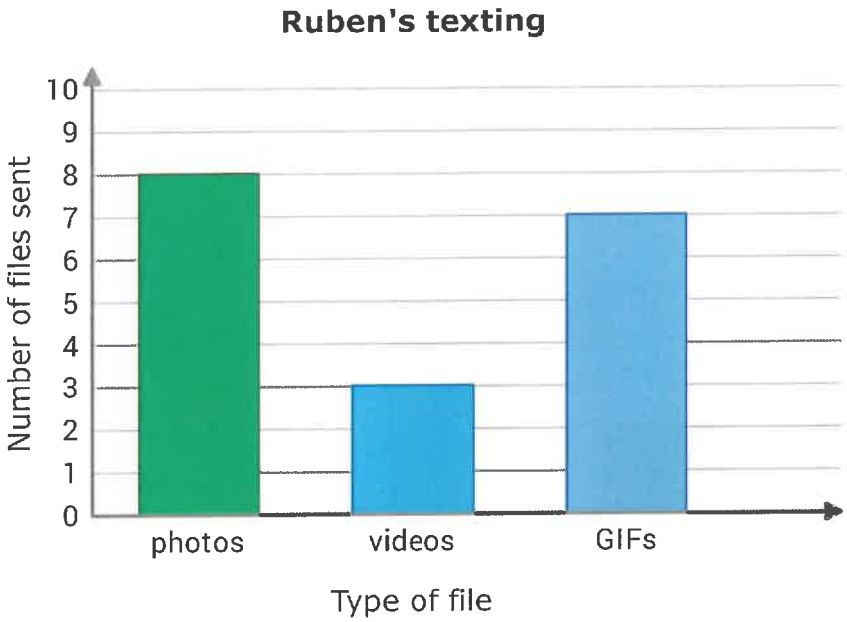
2. Trudy's class played educational games in the computer lab yesterday. The bar graph shows how many kids chose each type of game.



How many more kids played the math or vocabulary game than the typing game?

kids

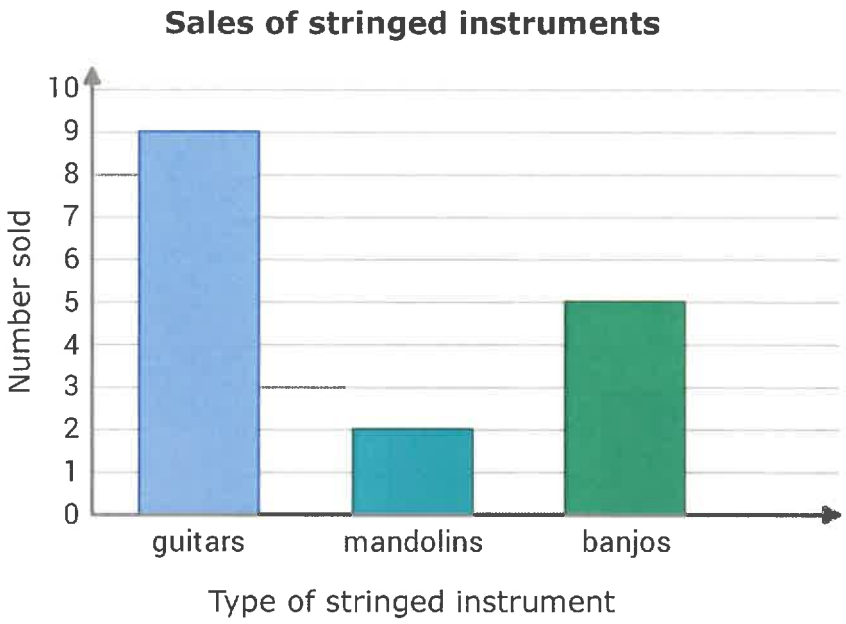
3. Ruben likes to send his friends pictures and videos while texting. The bar graph shows what he sent yesterday.



Today, Ruben sent twice as many photos as he did yesterday. How many photos did he send today?

photos

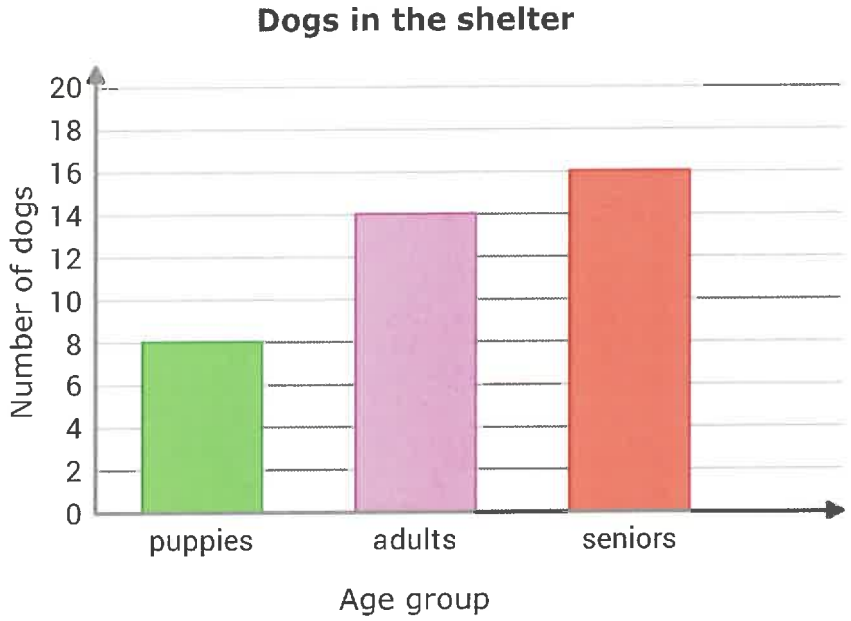
4. Josh owns a music store. He made a bar graph to show the stringed instruments he sold last week.



Josh's friend Sam has a music store in a nearby town. Last week, Sam sold 2 fewer guitars than Josh. He also sold 3 more mandolins than Josh. How many more guitars than mandolins did Sam sell last week?

more guitars

5. Camilla volunteers at an animal shelter. She made a bar graph to show how many dogs it had.



Last week, after Camilla made the bar graph, 4 puppies were adopted. This week, at a special adoption event, half of all the remaining dogs were adopted. How many dogs are left in the shelter now?

dogs

Name: _____

Summer Week 4 Grade 6 Day 18

1. A donut store uses 8.5 kilograms of sugar each hour. How many kilograms of sugar will the store use in 8 hours?

   ☐ kilograms

2. A sandwich shop employee named Rob takes 4.3 minutes to make a sandwich. How long does it take him to make 3 sandwiches?

   ☐ minutes

3. Evelyn bought 1.4 pounds of fruit for a class party. The class ate 0.59 pounds of the fruit. How much fruit is left?

   ☐ pounds

4. Sandeep bought 0.2 kilograms of apples and 0.91 kilograms of oranges. How much fruit did he buy in all?

   ☐ kilograms

5. There are 4 pink gumballs in a gumball machine at the mall. All together, the gumballs weigh 1 ounce. What is the weight of each gumball?

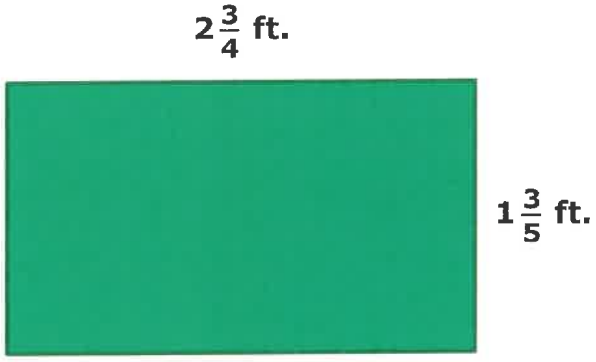
Write your answer as a decimal.

_____ ounces

Name: _____

Summer Week 4 Grade 6 Day 19

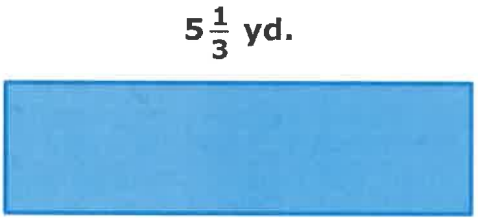
1. What is the area of the rectangle?



$\square$ square feet

Fraction | Mixed number | Whole number

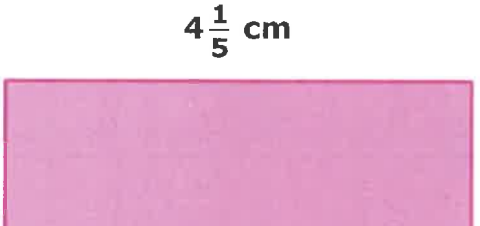
2. What is the area of the rectangle?



$\square$ square yards

Fraction | Mixed number | Whole number

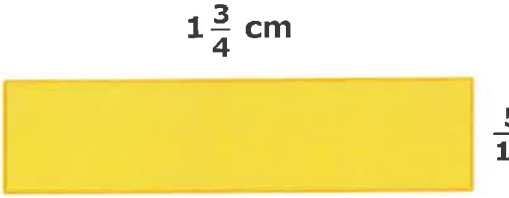
3. What is the area of the rectangle?



$\square$ square centimeters

Fraction | Mixed number | Whole number

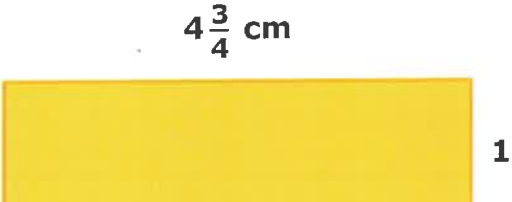
4. What is the area of the rectangle?



$\square$ / $\square$ square centimeters

Fraction | Mixed number | Whole number

5. What is the area of the rectangle?



$\square$ / $\square$ square centimeters

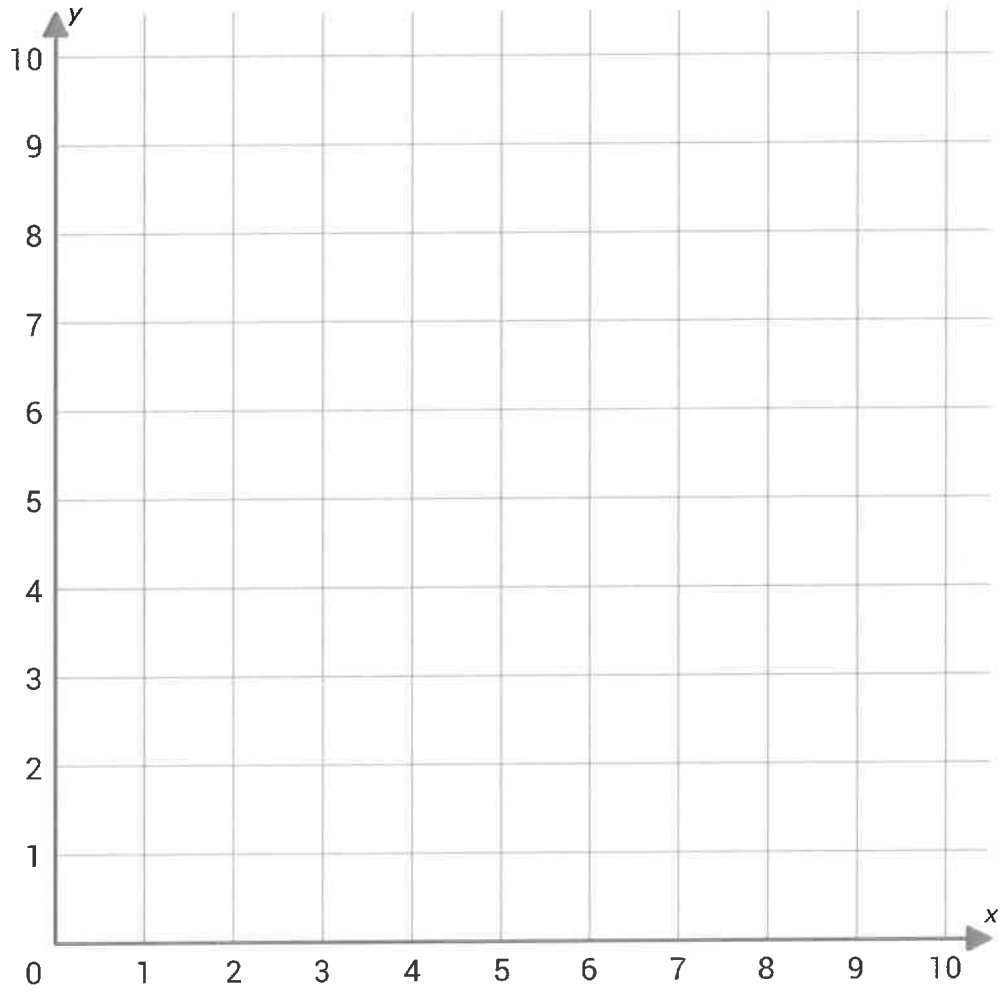
Fraction | Mixed number | Whole number

Name: _____

Summer Week 4 Grade 6 Day 20

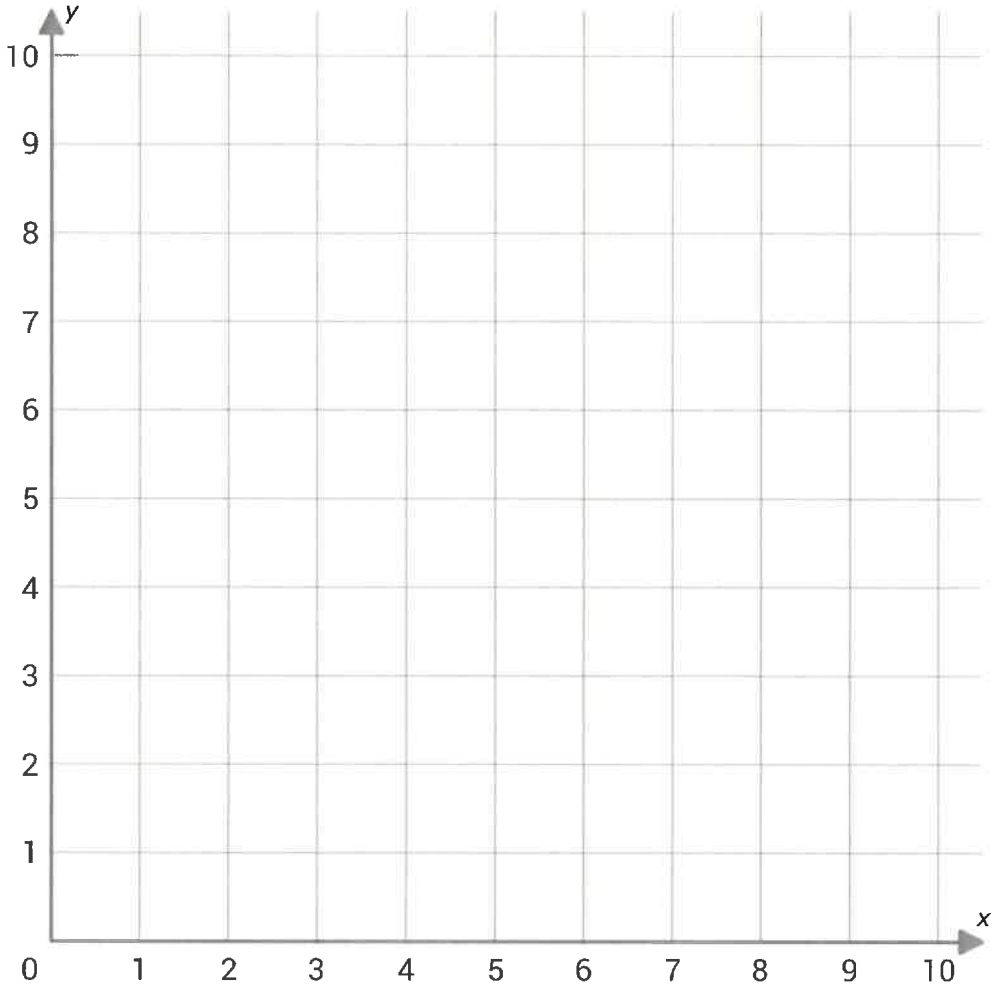
1. Graph the points (1, 8) and (7, 7) on the coordinate plane.

Click to graph a point. Click the point again to delete it.



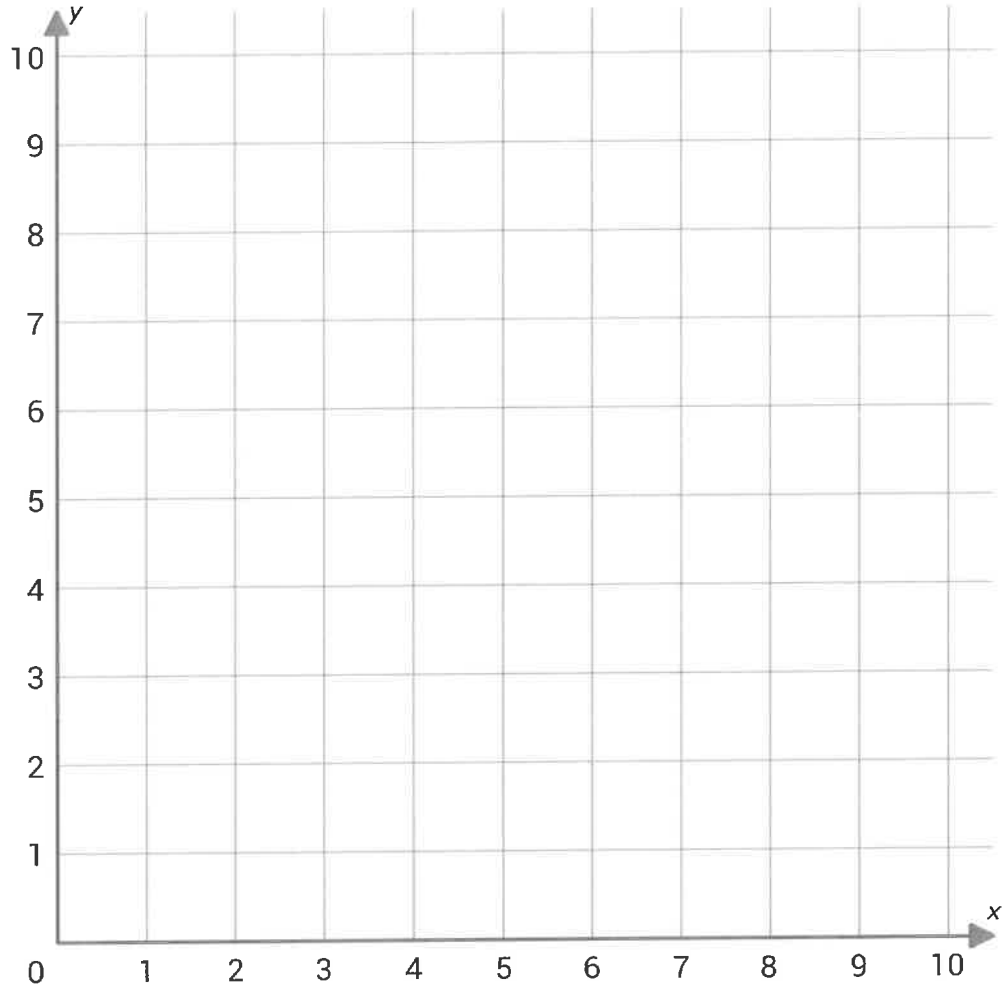
2. Graph the points (9, 5) and (2, 9) on the coordinate plane.

Click to graph a point. Click the point again to delete it.



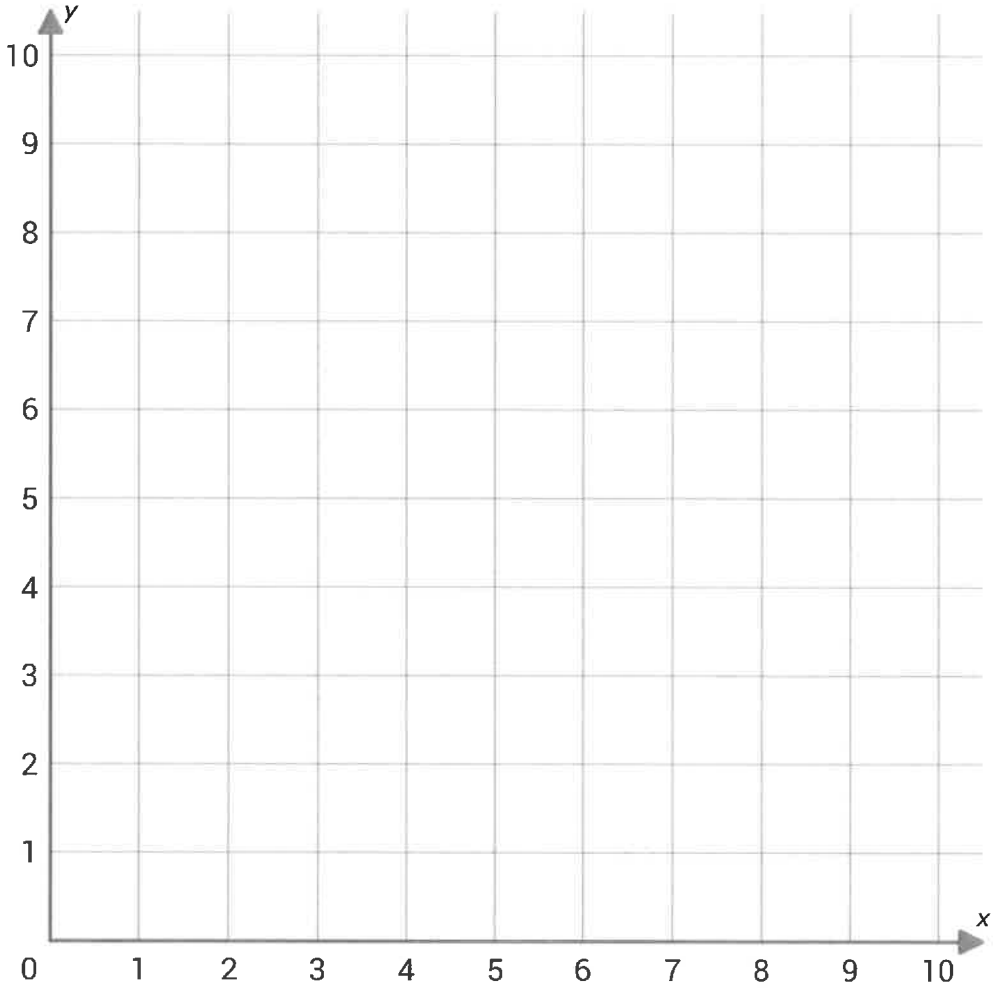
3. Graph the points (1, 8) and (9, 10) on the coordinate plane.

Click to graph a point. Click the point again to delete it.



4. Graph the points (5, 10) and (10, 6) on the coordinate plane.

Click to graph a point. Click the point again to delete it.



5. Graph the points (6, 10) and (3, 6) on the coordinate plane.

Click to graph a point. Click the point again to delete it.