

Class Name : **Math Accelerated**

Instructor Name : **Mrs. Messenger**

Student Name : \_\_\_\_\_

Instructor Note :

1. Answer the questions below. Be sure to mark *all* answers that apply.

	350	775	681	None of these
Which numbers are divisible by 10?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Which numbers are divisible by 5?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Which numbers are divisible by 2?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

2. Write all the factors of 18.

Use commas to separate them.

3. Write 45 as a product of prime factors.

4. Put a check by all the prime numbers.

<input type="checkbox"/>	2
<input type="checkbox"/>	8
<input type="checkbox"/>	11
<input type="checkbox"/>	16
<input type="checkbox"/>	21
<input type="checkbox"/>	24
<input type="checkbox"/>	None of the above

5. Find the greatest common factor of 9 and 36.

6. Find the least common multiple (LCM) of 15 and 9.

7. Rachel and Trey walk around a track. Rachel walks each lap in 5 minutes. Trey walks each lap in 7 minutes. The two of them begin at the starting line at the same time. They walk until they meet again at the starting line.

Answer the following questions.

How many laps does Rachel complete?

\_\_\_\_\_ laps

How many laps does Trey complete?

\_\_\_\_\_ laps

How much time does it take for them to meet again at the starting line?

\_\_\_\_\_ minutes

8. Rewrite  $5 \times 5$  using an exponent.

9. Evaluate.

$$6^2$$

10. Evaluate.

$$2^4$$

11. Evaluate.

$$10^6$$

12. What is the location of  $D$  on the decimal number line below?

Write your answer as a decimal.



13. What is the location of  $E$  on the decimal number line below?

Write your answer as a decimal.



14. Use  $<$ ,  $>$ , or  $=$  to compare the following decimals.

$$2.54 \square 6.35$$

$$0.4 \square 0.05$$

$$2.40 \square 2.4$$

15. Order these numbers from least to greatest.

6.8, 5.6231, 6.801, 6.81

16. Add.

$$9.46 + 5.2$$

17. Add.

$$8.2 + 1.88 + 3.49$$

18. Subtract.

$$77 - 66.23$$

19. Carlos found four pieces of wire in his tool drawer. Here are their lengths (in centimeters).

$$18, 5.4, 2.37, 10.1$$

What is the total length of the four pieces?

20. So far, Hong has driven 38 miles. He needs to drive a total of 204.2 miles. How many more miles must Hong drive?

21. Multiply.

$$\begin{array}{r} 58.5 \\ \times \quad 5 \\ \hline \end{array}$$

22. Multiply.

$$0.4 \times 0.21 =$$

$$0.3 \times 0.6 =$$

23. Suppose a bag of rice weighs 8.4 kilograms. How much do 6 bags of rice weigh?

24. Rafael sells beaded necklaces. Each large necklace sells for \$6.60 and each small necklace sells for \$5.10. How much will he earn from selling 4 large necklaces and 6 small necklaces?

25. A construction crew has just finished building a road. The crew worked for 12.6 days. If they built 2.5 kilometers of road each day, find the total length of road they built.

26. Divide.

$$36.1 \div 1000$$

27. Divide.

$$99.9 \div 0.54$$

28. Austin worked 4 days for a total of 50.8 hours. If he worked the same number of hours each day, how many hours did he work in a day?

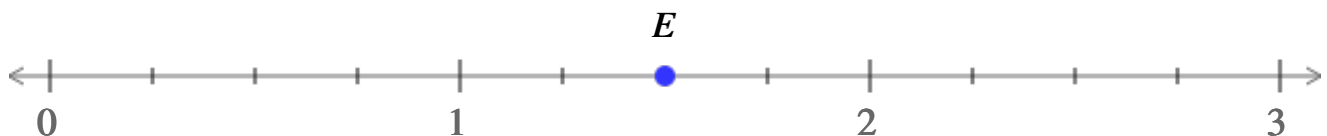
29. Divide.

$$2.82 \div 3$$

30. Ivanna makes loaves of bread using wheat flour and corn flour. She uses 0.41 kg of *wheat* flour to make each loaf of bread. If she uses a combined total of 4.86 kg of flour to make 6 loaves, how much *corn* flour is used in each loaf?

31. A light bulb in Austin's house uses 7.6 watts of electric power each minute it is on. If the light bulb used a total of 6.08 watts, how many minutes was it on?

32. Find the position of  $E$  on this number line.



Write a fraction or mixed number for your answer.

33. Multiply.

$$\frac{6}{7} \times 49$$

34. What is  $\frac{1}{4}$  of 12 ?

35. A race is  $\frac{7}{10}$  kilometers long. Amanda ran 9 of these races.

How far did she run altogether?

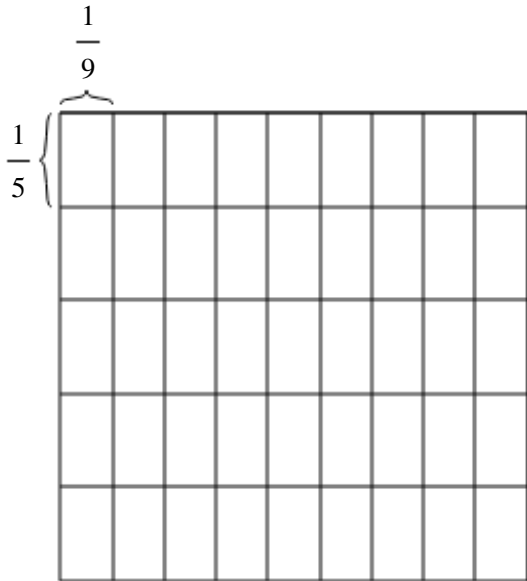
Write your answer in simplest form.

36. Multiply. Write your answer as a fraction in simplest form.

$$\frac{3}{2} \times \frac{8}{9}$$

37. Shade a region whose area is  $\frac{2}{5} \times \frac{7}{9}$ .

Then use the figure to compute  $\frac{2}{5} \times \frac{7}{9}$ .



$$\frac{2}{5} \times \frac{7}{9} =$$

38. Multiply.

$$2\frac{2}{5} \times \frac{2}{3}$$

Answer with a mixed number in simplest form.

39. A construction crew has just finished building a road. The crew worked for 14 days. If they built  $2\frac{1}{4}$  kilometers of road each day, what is the total length of road they built?

Write your answer as a mixed number in simplest form.

40. A road is  $\frac{5}{7}$  of a mile long. A crew needs to repave  $\frac{5}{6}$  of it. How long is the section that needs to be repaved?

Write your answer in simplest form.

41. Find the reciprocals of the numbers below.

The reciprocal of 19 is .

The reciprocal of  $\frac{9}{10}$  is .

42. Divide. Write your answer in simplest form.

$$\frac{1}{6} \div 7 =$$

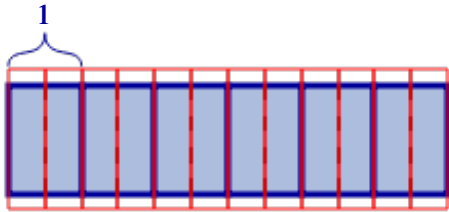
$$7 \div \frac{1}{6} =$$

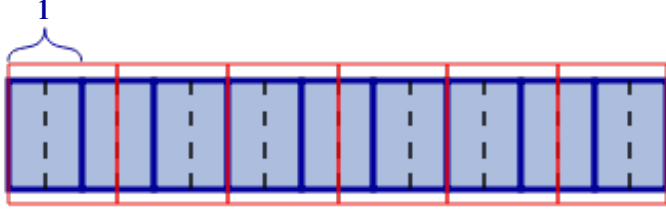
43. Divide. Write your answer in simplest form.

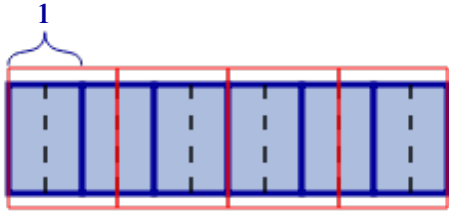
$$\frac{9}{4} \div \frac{3}{8}$$

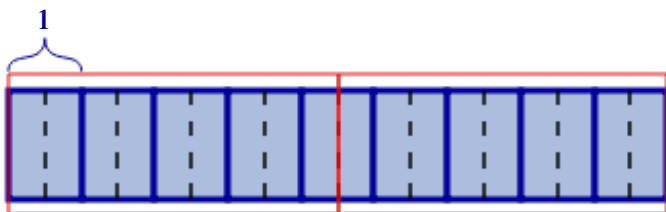
44. Choose the figure that models  $6 \div \frac{3}{2}$ .

Then use the figure to compute  $6 \div \frac{3}{2}$ .









$6 \div \frac{3}{2} = \underline{\quad}$



**45.** A construction company needs to remove 10 tons of dirt from a construction site. They can remove  $\frac{2}{5}$  tons of dirt each hour. How long will take to remove the dirt?

Write your answer in simplest form.

**46.** Divide. Write your answer as a fraction or mixed number in simplest form.

$$8 \div 3\frac{4}{5}$$

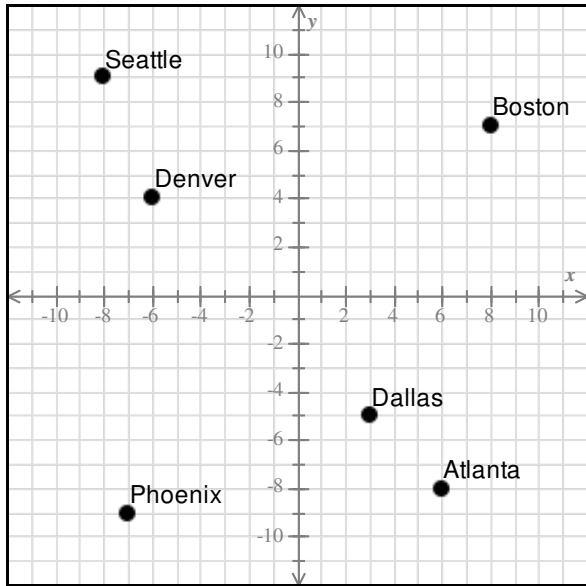
**47.** Divide. Write your answer as a fraction or a mixed number in simplest form.

$$8\frac{2}{3} \div 1\frac{7}{9}$$

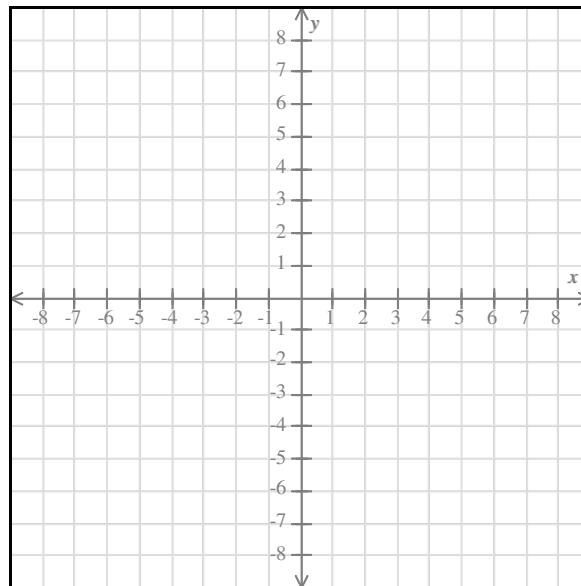
**48.** A shipment of sugar fills  $2\frac{1}{5}$  containers. If each container holds  $3\frac{4}{7}$  tons of sugar, what is the amount of sugar in the entire shipment?

Write your answer as a mixed number in simplest form.

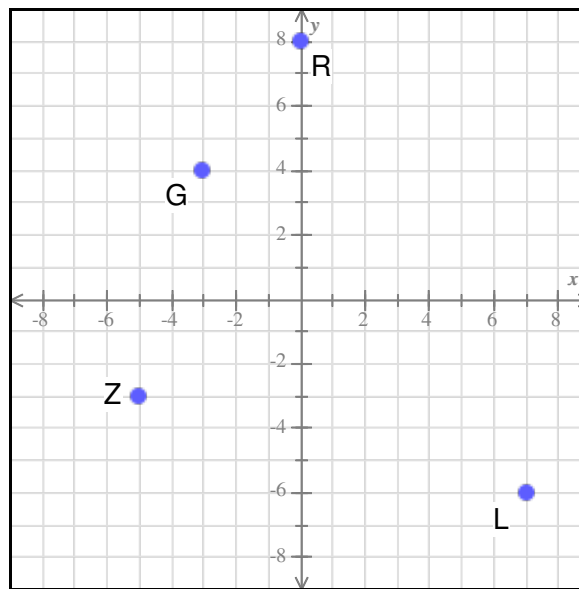
49. Give the location of Denver as an ordered pair  $(x, y)$ .



50. Using the pencil, plot the point  $(-6, 4)$ .

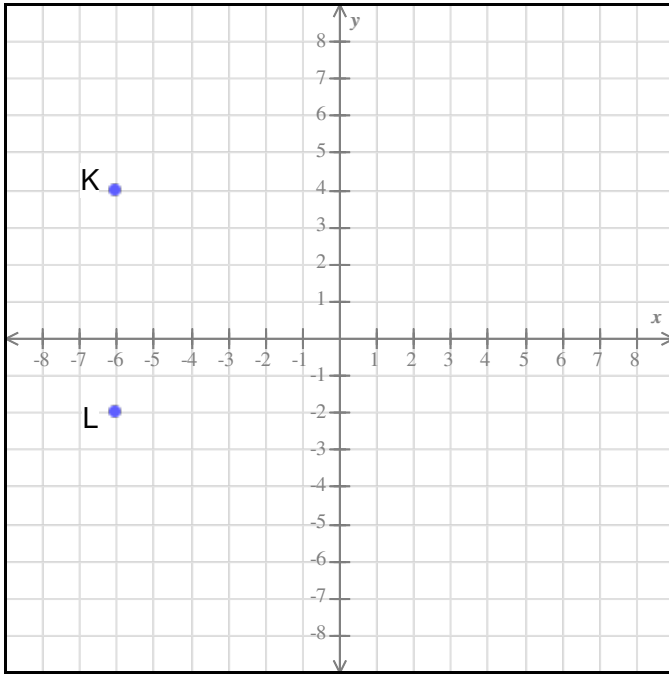


51. Name the quadrant or axis where each point lies.



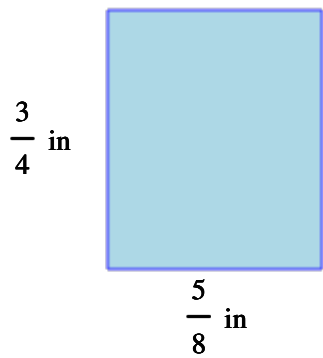
Point G: - Quadrant I - Quadrant II - Quadrant III - Quadrant IV - x-axis - y-axis	Point L: - Quadrant I - Quadrant II - Quadrant III - Quadrant IV - x-axis - y-axis
Point R: - Quadrant I - Quadrant II - Quadrant III - Quadrant IV - x-axis - y-axis	Point Z: - Quadrant I - Quadrant II - Quadrant III - Quadrant IV - x-axis - y-axis

52. Find the distance between point  $K$  and point  $L$ .



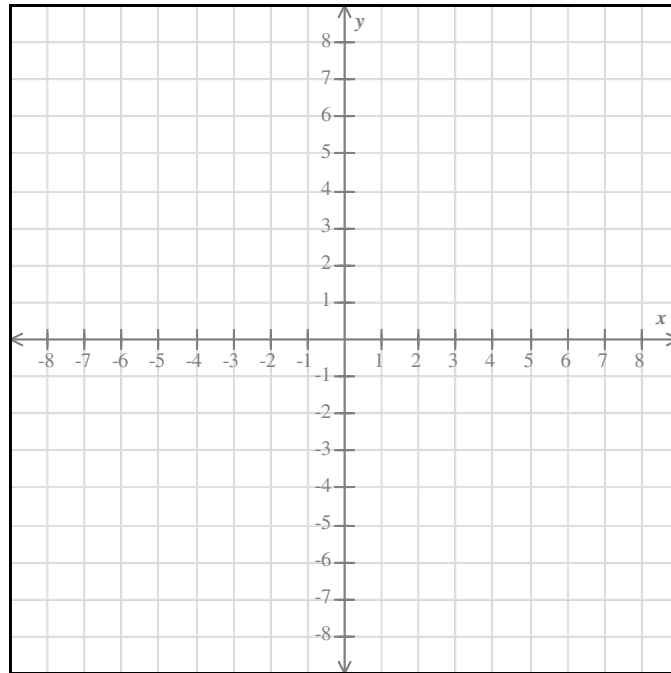
Distance: \_\_\_\_\_

53. Find the area of this rectangle.



54. Find the perimeter and area of the rectangle with vertices  $(0, 6)$ ,  $(-5, 6)$ ,  $(-5, -4)$ , and  $(0, -4)$ .

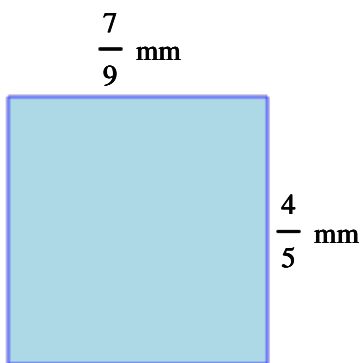
Note that you can draw in the Scratch Area below, but it is not part of the answer.



Perimeter: \_\_\_\_\_ units

Area: \_\_\_\_\_ square units

55. Find the area of this rectangle.



# 2018 Mid Term Practice Exam #4 Answers for class Math Accelerated

1.

	350	775	681	None of these
Which numbers are divisible by 10?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Which numbers are divisible by 5?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Which numbers are divisible by 2?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

2. 1, 2, 3, 6, 9, 18

3.  $45 = 3 \times 3 \times 5$

4.

<input checked="" type="checkbox"/>	2
<input type="checkbox"/>	8
<input checked="" type="checkbox"/>	11
<input type="checkbox"/>	16
<input type="checkbox"/>	21
<input type="checkbox"/>	24
<input type="checkbox"/>	None of the above

5. 9

6. 45

7. How many laps does Rachel complete?

7 laps

How many laps does Trey complete?

5 laps

How much time does it take for them to meet again at the starting line?

35 minutes

8.  $5 \times 5 = 5^2$

9. 36

10. 16

11. 1,000,000

12. 0.4

13. 2.42

14.

$$2.54 < 6.35$$

$$0.4 > 0.05$$

$$2.40 = 2.4$$

15.  $5.6231 < 6.8 < 6.801 < 6.81$

16. 14.66

17. 13.57

18. 10.77

19. 35.87 centimeters

20. 166.2 miles

21. 292.5

22.

$$0.4 \times 0.21 = 0.084$$

$$0.3 \times 0.6 = 0.18$$

23. 50.4 kilograms

24. \$57.00

25. 31.5 kilometers

26. 0.0361

27. 185

28. 12.7 hours

29. 0.94

30. 0.40 kg



31. 0.8 minutes

32.  $1\frac{2}{4}$

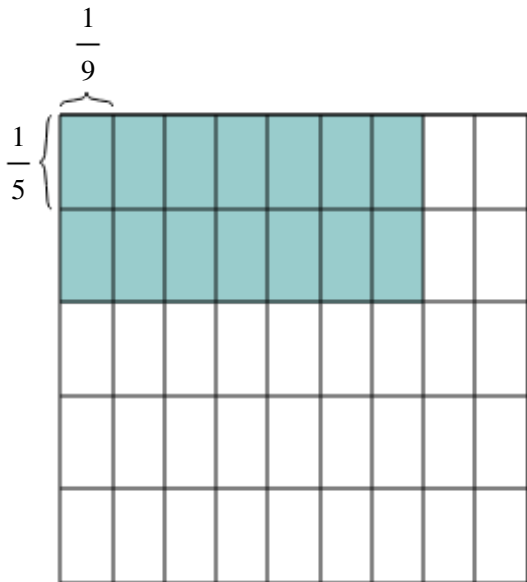
33. 42

34. 3

35.  $\frac{63}{10}$  kilometers

36.  $\frac{4}{3}$

37.



$$\frac{2}{5} \times \frac{7}{9} = \frac{14}{45}$$

38.  $1\frac{3}{5}$

39.  $31\frac{1}{2}$  kilometers

40.  $\frac{25}{42}$  miles

41. The reciprocal of 19 is  $\frac{1}{19}$ .

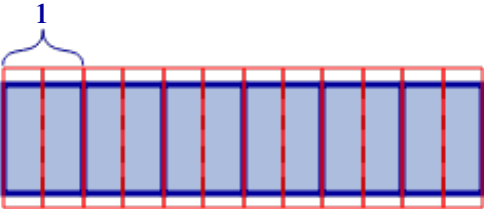
The reciprocal of  $\frac{9}{10}$  is  $\frac{10}{9}$ .

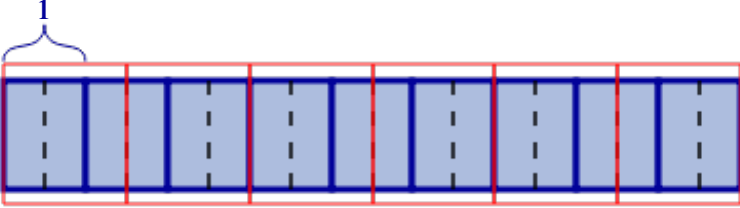
42.  $\frac{1}{6} \div 7 = \frac{1}{42}$

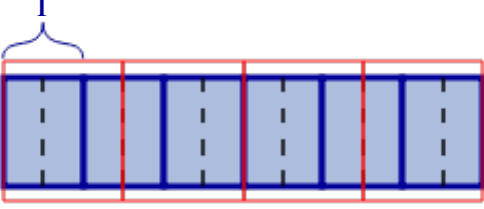
$7 \div \frac{1}{6} = 42$

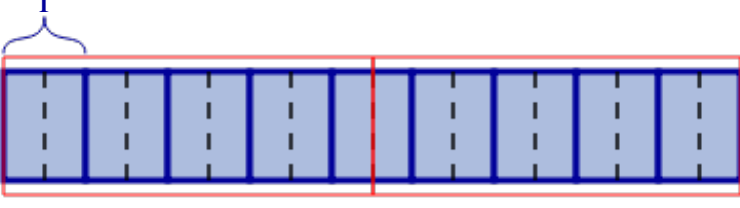
43. 6

44.









$6 \div \frac{3}{2} = 4$

45. 25 hours

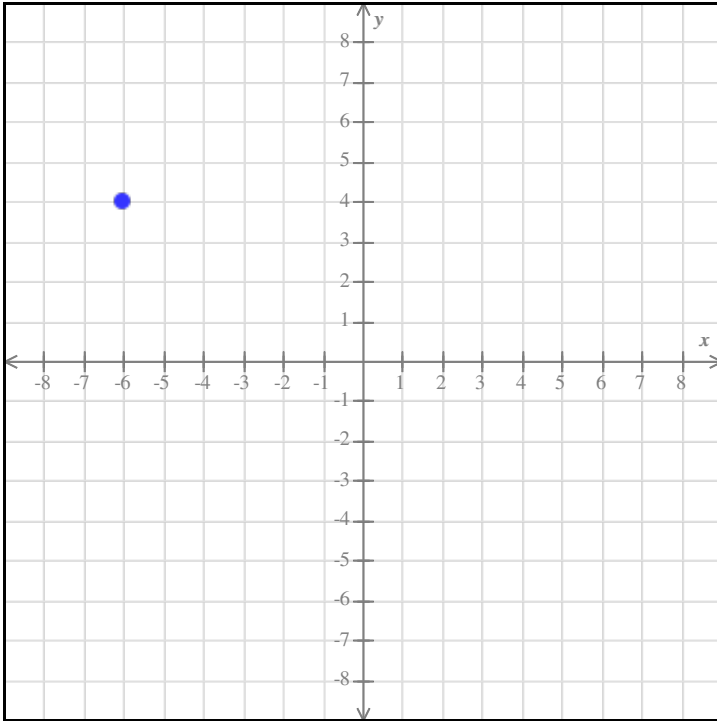
46.  $2\frac{2}{19}$

47.  $4\frac{7}{8}$

48.  $7\frac{6}{7}$  tons

49.  $(x, y) = (-6, 4)$

50.



51.

Point G: - <b>Quadrant II</b>	Point L: - <b>Quadrant IV</b>
Point R: - <b>y-axis</b>	Point Z: - <b>Quadrant III</b>

52. Distance: 6

53.  $\frac{15}{32}$  square inches

54.

Perimeter: 30 units

Area: 50 square units

55.  $\frac{28}{45}$  square millimeters