

1. Round 6.79 to the nearest whole number.

2. Convert $4\frac{1}{7}$ into an improper fraction.

3. Write the numbers below in order from least to greatest. Use commas to separate.

2.662	2.98	2.83	$2\frac{3}{10}$	$2\frac{3}{4}$
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4. Convert $\frac{13}{20}$ into a decimal.

5. Convert 0.389 to a fraction in simplest form.

6. Evaluate the expression shown below and write your answer as a fraction or mixed number in simplest form.

$$\frac{9}{22} + \frac{3}{22}$$

7. Evaluate the expression shown below and write your answer as a fraction or mixed number in simplest form.

$$-\frac{9}{4} + \frac{7}{6}$$

8. Perform the operation below. Express your answer as a mixed number in simplest form.

$$1\frac{5}{8} + 2\frac{1}{10}$$

9. Perform the operation below. Express your answer as a mixed number in simplest form.

$$4\frac{3}{10} + \left(-1\frac{4}{9}\right)$$

10. Perform the operation and simplify the answer fully.

$$\frac{\frac{1}{10}}{\frac{7}{5}}$$

11. Perform the operation and reduce the answer fully.

Make sure to express your answer as a simplified fraction.

$$\frac{-\frac{5}{6}}{\frac{10}{7}}$$

12. Find the product of the two fractions below. Use the technique of cross-cancellation (and/or standard fraction simplification) to completely simplify the fractions first.

$$\frac{55}{45} \times \frac{3}{16}$$

13. Evaluate.

$$\frac{1}{4} - \left(\frac{1}{2}\right)^3$$

14. Evaluate.

$$\left(\left(\frac{2}{3}\right)^2 - \frac{1}{3}\right) \times 3$$

15. Evaluate.

$$\left(\left(\frac{3}{4}\right)^2 - \frac{1}{2}\right) \div 6$$

16. Evaluate the expression shown below and write your answer as a fraction or mixed number in simplest form.

$$-\frac{1}{4} \div \frac{3}{32} \cdot -\frac{8}{9}$$

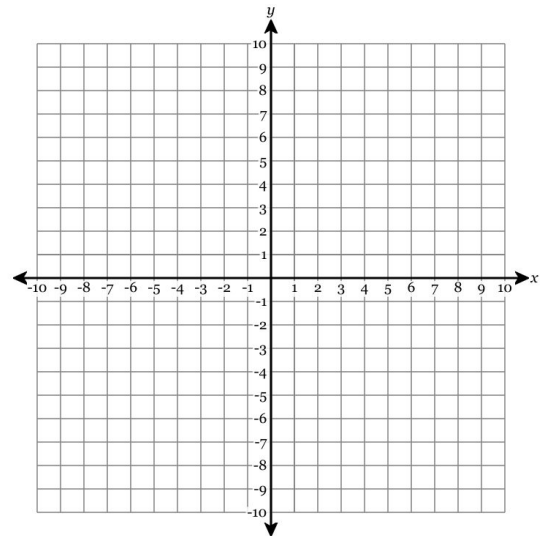
17. Evaluate the expression shown below and write your answer as a fraction or mixed number in simplest form.

$$\frac{3}{10} \div -0.65$$

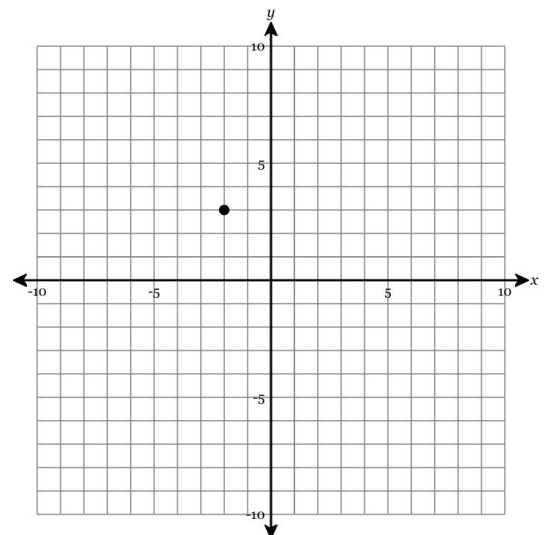
18. Evaluate the expression shown below and write your answer as either a mixed number or fraction in simplest form, or a decimal.

$$\left(-5\frac{1}{4} + 7\frac{1}{2}\right) \div -1.25$$

19. Plot the point $(-1, 4)$.



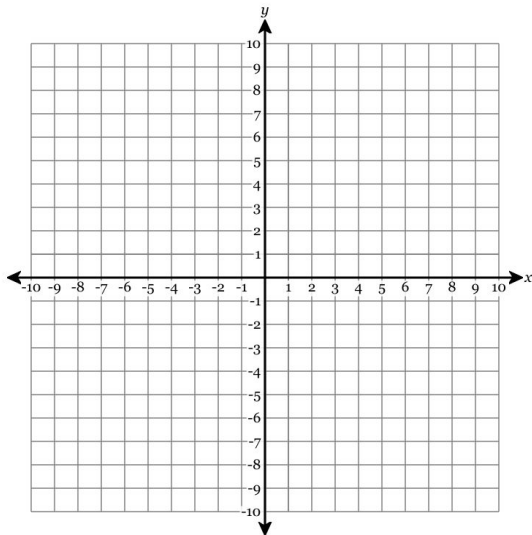
20. State the coordinates of the point.



21. Select the point which lies in the second quadrant.

- A. $(-4, -8)$
- B. $(-6, 4)$
- C. $(8, -5)$
- D. $(5, 2)$

22. Plot and connect the points in the order listed below. When you are done, choose the word that best identifies the resulting shape/polygon. $A(-7, -8)$, $B(-5, 1)$, $C(0, 1)$, $D(2, -8)$



- A. Triangle (Acute)
- B. Quadrilateral (Parallelogram)
- C. Quadrilateral (Trapezoid)
- D. Triangle (Right)
- E. Hexagon

23. At Hudson's store, the cost of nine bars of soap is \$32.68. At Carter's store, the cost of three bars of the same soap is \$10.86. Compare prices by finding a pair of common values (same number of soap bars or same price). Round your answers to the nearest cent if necessary.

At Hudson's store, _____ bars of soap costs \$ _____ . At

Carter's store, _____ bars of soap costs \$ _____ .

_____ (Hudson's, Carter's) store has the better price.

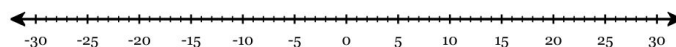
24. Solve for x .

$$\frac{x}{6} = \frac{8}{3}$$

25. 13 is what percent of 50?

26. A middle school took all of its 6th grade students on a field trip to see a play at a theater that has 1300 seats. The students filled 7% of the seats in the theater. How many 6th graders went on the trip?

27. Plot 4 on the number line below. State its distance from zero, and then find $|4|$.



Distance from Zero =

$$|4| =$$

28. The list below shows the temperature Feng recorded at 11:00 p.m. for four days last January.

Monday: -22°F

Tuesday: 3°F

Wednesday: -17°F

Thursday: -27°F

On which of the days did Feng record the highest (warmest) temperature?

- A. Monday
- B. Tuesday
- C. Wednesday
- D. Thursday

29. Write the numbers below in order from least to greatest. Use commas to separate.

7	6	-2	-19	-9	-17
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30. How many terms are written in the expression below?

$$3p - 4a + 12 + 5r$$

31. What is the value of the expression $7w - 3$ when $w = 7$?

32. Which expression is equivalent to $3a + a + 3a$?

- A. $a + 6$ B. $7a$ C. $1 + 6a$ D. $5a$

33. Find an expression which represents the sum of $(-7x + 5y)$ and $(5x - 6y)$ in simplest terms.

34. Rewrite in simplest terms: $-(5k + 9) + 9k$

35. Identify the greatest common factor of $48y$ and $39abw$.

36. Use exponents to condense the expression below.

$$x \cdot z \cdot x \cdot x \cdot z \cdot z \cdot z$$

37. Solve for c .

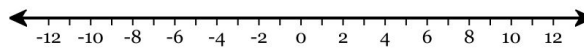
$$7 = c - 2$$

38. Solve for c .

$$8 = -3c + 29$$

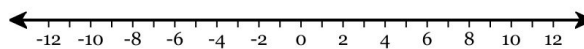
39. Solve for x and graph the solution on the number line below.

$$-3 < x - 9$$



40. Solve the inequality and graph the solution on the line provided.

$$6x - 18 \geq 0$$



41. Convert 81.1% to a fraction in simplest form and a decimal.

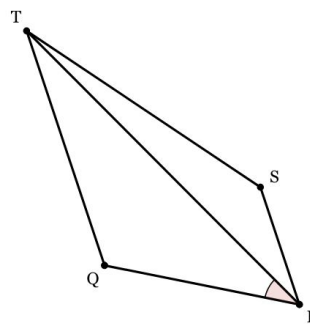
42. Convert 0.948 to a fraction in simplest form and a percent.

43. Convert $\frac{23}{40}$ to a decimal and a percent.

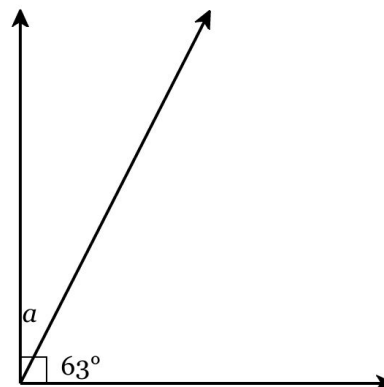
44. Convert 34% to a fraction in simplest form and a decimal.

45. Convert $\frac{11}{40}$ to a decimal and a percent.

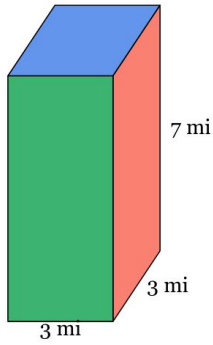
46. Name the marked angle in 2 different ways.



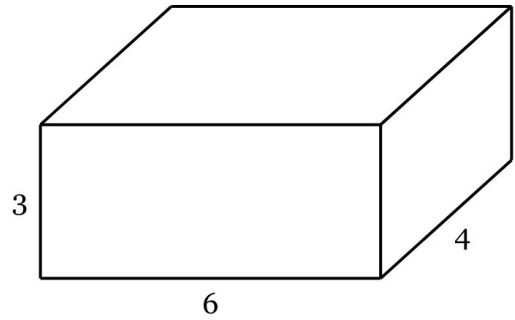
47. Find the measure of the missing angle.



48. Find the surface area of the rectangular prism.



50. Find the volume in cubic feet of the right rectangular prism shown below.



49. What is the surface area of the cylinder with height 6 yd and radius 6 yd? Round your answer to the nearest thousandth.

