

**Saturday Tutoring
Mathematics Program**

Name: _____

6th Grade

Saturday Tutoring Program 6th Grade Mathematics Practice

1. What are factors in the following expression?

6. EE. 2b (22)

$$8(6x - 7)$$

Show your work

Answer: _____

6. Evaluate:

$$6^3 + 7 \times 4$$

6. EE. 1

Show your work

Answer: _____

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8. The length of a rectangular parking lot at the airport is $\frac{2}{3}$ mile. If the area is $\frac{1}{2}$ square mile, what is the width of the parking lot?

6.NS.1

Show your work

Answer: _____

9. Which number best represents the location of point E on the number line below?

6.NS.6c



- A** -1.8
- B** -1.6
- C** -1.5
- D** -1.3

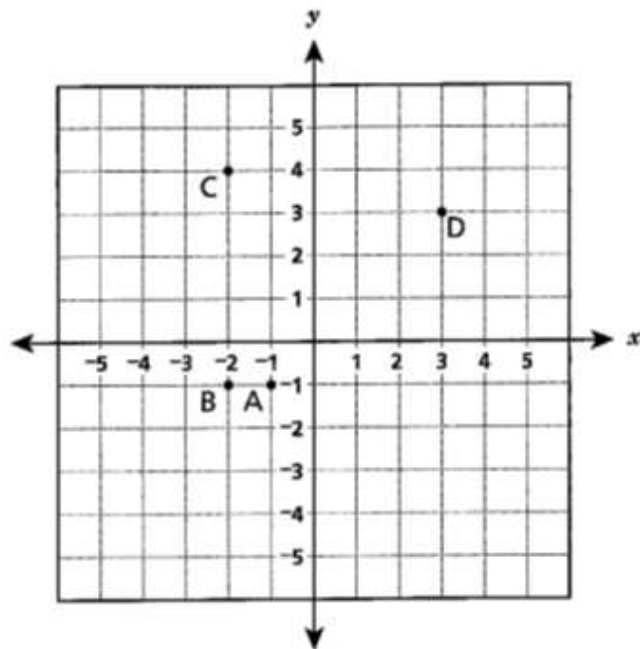
10. The coordinates of point *A* are $(-6, 4)$. The coordinates of point *B* are $(3, 4)$. Which expression represents the distance, in units, between points *A* and *B*?

6. NS. 8

- A $| -6 | + | 3 |$
- B $| 3 | - | -6 |$
- C $| -6 | + | -4 |$
- D $| 4 | - | -6 |$

11. Point *G* is the point $(3, -1)$.

6. NS. 8



Which point is 5 units from point *G*?

- A point A
- B point B
- C point C
- D point D

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15. The school store listed the sales below.

6. RP.3

Erasers... 5 for \$1.25

Pencils... 6 for \$3.30

What is the total cost if you buy 3 erasers and 3 pencils?

- A \$1.60
- B \$2.40
- C \$2.75
- D \$4.55

20. What expression is equivalent to?

$$|-30| \div |5|$$

6. NS.7c

Show your work

Answer: _____

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30. What is the least common multiple of 4, 10, and 12?

6. NS. 4 (33)

- A 2
- B 60
- C 120
- D 480

33. The original price of a sweater was \$80. Which discount is equivalent to \$20 off the price of the sweater?

6. RP.3c

- A 20% off
- B 25% off
- C $\frac{1}{3}$ off
- D $\frac{1}{2}$ off

34. Divide

$$1\frac{1}{3} \div 1\frac{1}{5} =$$

6. NS. 1

- A $\frac{5}{4}$
- B $\frac{4}{5}$
- C $\frac{10}{9}$
- D $\frac{9}{10}$

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35. Ms. Noel plotted a point at $(4, -3)$. From this point, she moved up four units and right 2 units. At what point did she end up?

6.NS.8

- A $(6, 1)$
- B $(7, -2)$
- C $(-2, 1)$
- D $(7, 6)$

37. What is the result when the shaded area is divided by $\frac{3}{4}$?

6.NS.1

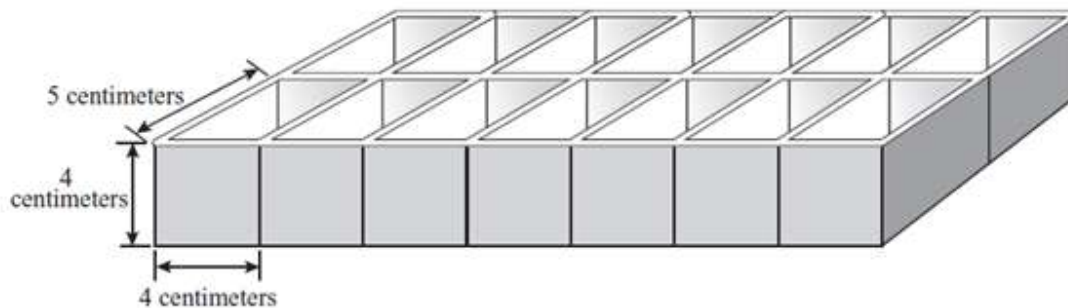


Show your work

Answer: _____

38. To make fruit pops for her younger sister, Carol fills and freezes a tray of fruit juice. Each of the 14 compartments in the tray is a rectangular prism with the dimensions shown and labeled below.

6. G.2



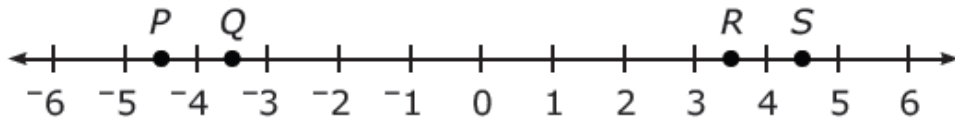
Show your work

Answer: _____

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Additional Problems:

1. Which point on the number line represents the number $-4\frac{1}{2}$?



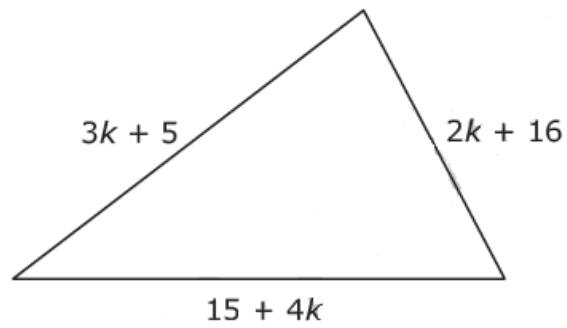
- A *P*
- B *Q*
- C *R*
- D *S*
2. Mrs. Black had $2\frac{1}{8}$ yards of material. She used $1\frac{1}{4}$ yards to make a jacket for Sally.
How much material did she have left?

Show your work

Answer: _____

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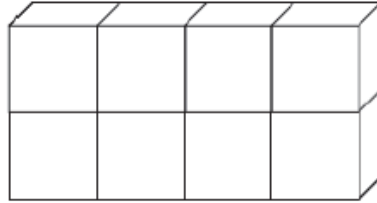
3. Which expression represents the perimeter of the triangle?



Show your work

Answer: _____

4. The right rectangular prism below is made up of 8 cubes. Each cube has an edge length of $\frac{1}{2}$ inch.



What is the volume of this prism?

- A 1 cubic inch
 - B 2 cubic inches
 - C 4 cubic inches
 - D 8 cubic inches
5. Which expression is equivalent to $5y + 2y + 6x + 2y - x$?

Show your work

Answer: _____

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6. Jack drew a number line on his paper.



Jack drew a new point 45% of the distance from point *E* to point *J*. Between which two letters does the new point lie?

- A *G* and *H*
- B *I* and *J*
- C *F* and *G*
- D *H* and *I*