Grade: 5 Practice Worksheets
Domain Name: Operations & Algebraic Thinking

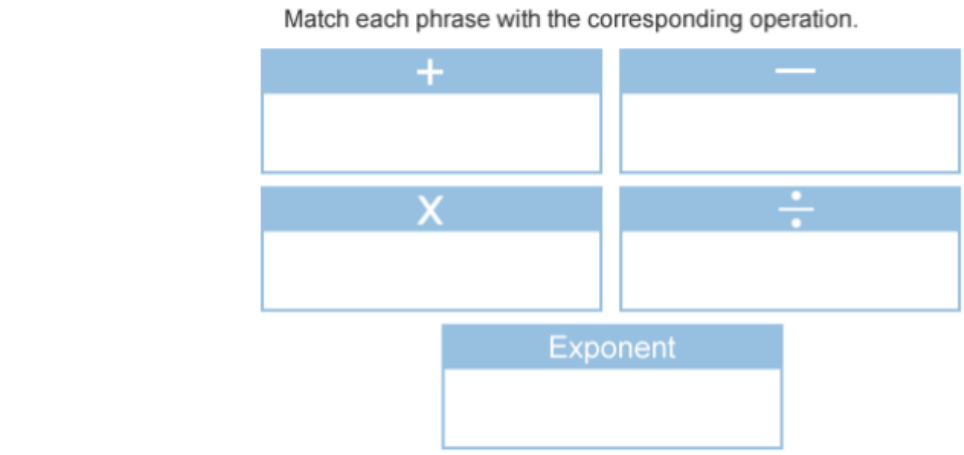
1. Solve:

   $(5 \times 3) + (6 \times 6) + (32 \div 4) =$ ☐

2. Simplify

   $[(5 + 17) \times 2] \div 11 =$ ☐

3. Simplify



less than | sum of | power | quotient | times | squared | product

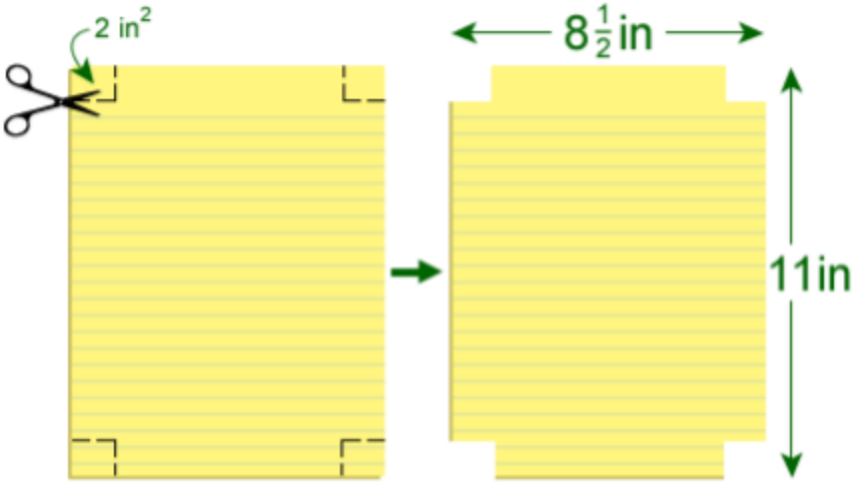
4. $4 \times [(8 + 12) \div 4] =$ ☐
5. Which expression represents 2 times the sum of 5 and 7?
   - $5 + 7 \times 2$
   - $2 \times 5 + 7$
   - $10 + 7$
   - $2 \times (5 + 7)$
   - $(2 \times 5) + 7$
6. Solve

   $10 + 3 + 2^2 \times 12 - 10 =$ ☐

   $(10 + 3) + 2^2 \times (12 - 10) =$ ☐

7. Imagine you sold 3 pigeons for $10 each and 1 big turtle for $5.
   In other words: 3 x $10 + $5. How rich are you now?
   Do you multiply or add first?

- You multiply 3 x $10 first to equal $30 and then add $5 which gives you $35.
- You add $10 + $5 first to equal $15 and then multiply by 3 which gives you $45



8. A sheet of paper has dimensions of 8.5 in x 11 in. If you cut 2 in 2 from each corner of the sheet, what will the area of the sheet of paper be?

in2in2

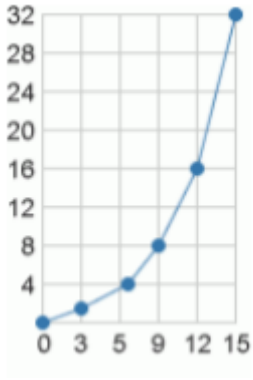
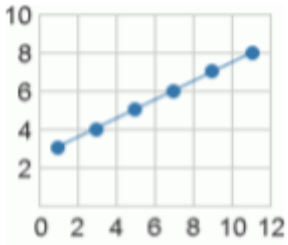
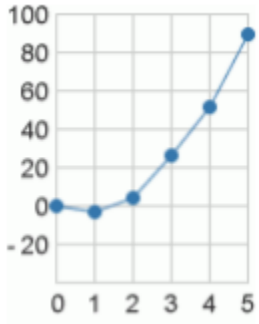
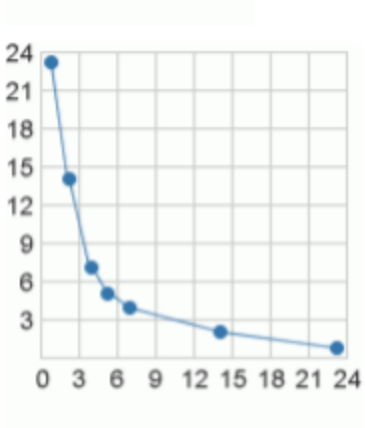
9. Alex's father is 5 times older than Alex and Alex is twice as old as his brother Nick who is 5 years old. How old is Alex's father?

years old

10.

Rule 1	Rule 2
0	0
3	2
6	4
9	8
12	16
15	32

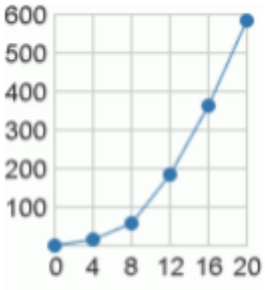
Here are the sequence of numbers from two different rules:
Rule 1: 0, 3, 6, 9, 12, 15
Rule 2: 0, 2, 4, 8, 16, 32
Which is the correct graph for these two rules?

- 
32
28
24
20
16
12
8
4
0 3 5 9 12 15
- 
10
8
6
4
2
0 2 4 6 8 10 12
- 
100
80
60
40
20
0
- 20
0 1 2 3 4 5
- 
24
21
18
15
12
9
6
3
0 3 6 9 12 15 18 21 24

Rule 1	Rule 2
1	3
3	4
5	5
7	6
9	7
11	8

11.

Here are the sequence of numbers from two different rules:
Rule 1: 1, 3, 5, 7, 9, 11
Rule 2: 3, 4, 5, 6, 7, 8
Which is the correct graph for these two rules?

- 

-
-
-

12. Which of the following is the same as 5 + 6 + 7?
    - 5 x 7
    - 5 x 6 x 7
    - 7 + 5 + 6
    - 5 + 4 + 3
    - none of the above
13. Which of the following is the same as (4 × 6) × n?
    - 4 × (6 × n)
    - 46 × n
    - (4 + 6) + n
    - (4 ÷ 6) ÷ n
    - none of the above
14. Which of the following is the same as 376(a − b)?
    - (a − b) ÷ 376
    - 376 − a − b
    - 376a − b
    - 376a − 376b
15. Is this number prime or composite?

    21

- prime
- composite

16. Is this number prime or composite?

67

- prime
- composite

17. Click on the prime number.

- 57
- 33
- 68
- 17

18.

Here are the sequence of numbers from two different rules:
Rule 1: 0, 4, 8, 12, 16, 20
Rule 2: 0, 10, 65, 190, 365, 590
Which is the correct graph for these two rules?

-
-
-

19.

20. Which of the following is the same as 12 ÷ (b ÷ c)?

- c ÷ 12 ÷ b
- (12 ÷ b) ÷ c
- 12 ÷ (b × c)
- 12 ÷ b ÷ c
- none of the above

Domain Name: Number and Operations in Base 10

1.

 Check the division answer.

12 X 54 =

2.

A rectangle-shaped garden is 4,732 square feet. The length of one side is 91 feet. What is the width of the garden?

feet

3.

```
     127 R53
74 ⟌9451
   -7400
    2051
   -1480
     571
    -518
      53
```

Check the division answer.

(127 X 74) + 53=

4.

Multiply.

39

X 73

5.

Multiply.

207

X 23

6.

Click on blue bubbles that are mistakes in the solving the multiplication problem.

7.

Multiply.

6350

X 43

8.

Multiply.

379

X 123

9.

A restaurant purchased 160 boxes of mustard packets. Each box contained 103 packets of mustard. How many mustard packets in total did the restaurant purchase?

mustard packets

10.

Drag the numbers to the correct multiplication equation.

11.
Multiply.

900
X 900

12.
Select the phase that correctly fills in the sentence.
The value of the 5in the number 43**5** is the value of the 5 in the number 9**5**1.

- Equal to
- 1/10 of
- 10 times

13.
.00041 × 10 =
14.
Select the correct place value for the highlighted digit.

15.
Multiply.

86.85
X 100

16.
Match the correct place value name with its corresponding numerical value.

17.
Rewrite the number in expanded notation.

18.
Drag the decimal point below to the correct location in each solution.

19.
Write the number in expanded notation:


20.
Add:
.76 + .1 =
21.
Determine which numbers in each expression are the exponent and the base.

22.
Solve: 3^2 =
23.
Rewrite the exponent as repeated multiplication.

24.
Select the decimal that represents each fraction.

25.
Write six hundred sixty-four thousandths as a decimal number.

26.
Write the numbers in order from greatest to least.
4.88, 6.66, 2.55, 3.201
, , ,
27.
Round each decimal to 8 or 9.

28.
Round each decimal to 5.32 or 5.33

29.
Round to the nearest hundredth and then add the numbers.

30.
If a rat grows 1.5 inches a year, how many years will it take the rat to grow to 12.3 inches?
Years

Domain Name: Number and Operations – Fractions

1.
Add.
1/3 + 5/6 =
2.
Ms. Bauer corrected 2/3 of the science quizzes. Mr. Richardson corrected 2/7 of the quizzes. What fraction of the science quizzes has been corrected?
of the quizzes
3.
Select the fraction that shows 3/4 and 6/8 are equivalent.

$$\frac{3}{4} \times \square = \frac{6}{8}$$

$\frac{2}{2}$ $\frac{4}{4}$ $\frac{5}{5}$

4.

$\square$ Find the missing number to make these fractions equal.

____ _____ = 8 4 16

5.

Add.

$\frac{1}{3} + \frac{3}{12} =$

$\frac{\square}{12} + \frac{\square}{12} = \frac{\square}{\square}$

6.

Subtract.

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

$\frac{\square}{15} - \frac{\square}{\square} = \frac{\square}{\square}$

7.

Subtract.

29/22 - 9/11 =

8.

Create equivalent fractions, and then drag the correct numerator to the solution.

9.

Add.

2/6 + 4/8 + 3/4 =

10.

Larry received 1/3 pound of candy from his grandmother and 2/5 pound of candy from his best friend. Larry's sister ate 1/2 pound of Larry's candy. How many pounds of candy does Larry have left?

pound of candy.

11.

How many blocks are all together in Step 1?
How many equal groups are there in Step 2?
How many groups are circled in Step 3?
How many blocks are in the circle in Step 3?
Write and solve the problem shown by the blocks.
/ of =

12.

Step 1: Select 10 blocks.
Step 2: Divide the blocks into 5 equal parts.
Step 3: Circle 1 of the equal groups and count the blocks.
Write and solve the problem shown by the blocks.
/ of =

13.

If you have 6 friends and make three equal teams, how many friends are on one team?
friends

14.

If you have 12 friends and make three equal teams, what fraction do you use?

- 1/6
- 1/3
- 1/2
- 1/4

15.

Solve.
2/3 of 9=

16.

Four-sevenths of fourteen is

17.

You earned ten dollars. You spent two-fifths of what you earned. How much did you spend?
dollars

18.

Add.

19.

From Mason's house, it takes 10 1/2 hours to drive to Los Angeles. If Mason has already driven for 7 1/4 hours, how many hours remain until he reaches Los Angeles?
hours

20.

Multiply.
1/3 × 7/5 × 5/7 =

21.

Solve.
1/6 of 4/5 =

22.
Two thirds of the parade vehicles were vintage vehicles and 1/3 of the vintage vehicles were motorcycles. What fraction of the total parade vehicles are motorcycles?

of the parade

23.
Multiply.
3/6 × 2/3 =

24.
In the bakery 1/3 of the cakes have strawberry frosting and 3/7 of the cakes with strawberry frosting have vanilla filling. What fraction of the cakes at the bakery have both strawberry frosting and vanilla filling?

of the total cakes

25.
Multiply and reduce to lowest terms. Convert into a mixed number if necessary.

26.

Find the area of the shaded rectangle.

in^2

27.
The farmer's fence was 3/4 kilometers wide and 5/6 kilometers long. What is the area in decimal form?

square kilometers

28.
Drag the symbols and numbers to the correct position to divide the numbers below.

29.
A recipe calls for 5/8 pound of cheese per batch. Assuming you have enough of the other ingredients, how many batches of the recipe can you make with 5 pounds of cheese?

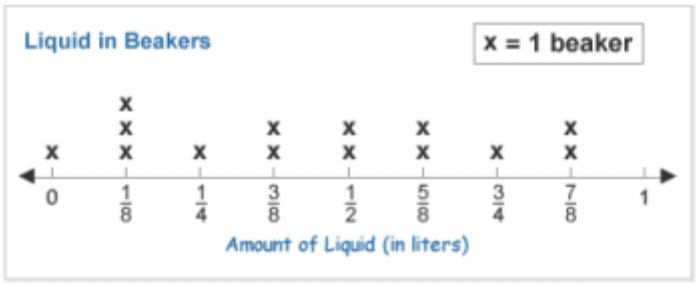
batches

30.
Mrs. Sanders bought a block of chocolate that weighed 1/9 of a kilogram. She cut the chocolate into 6 equal pieces. What was the weight of each piece of chocolate?

of a kilogram

Domain Name: Measurement and Data

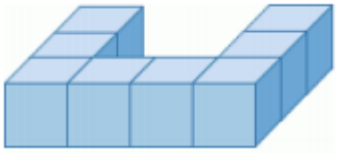
1.



☐ How many beakers have $\frac{1}{8}$ liter of liquid?

beakers

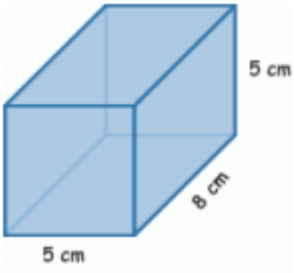
2.



☐ What is the volume of this object?

cubic units

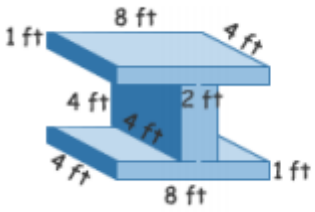
3.



Find the volume of the rectangular prism.

☐ V = cm^3

4.



Find the volume of the object.

☐ V = ft^3

5.

A bathtub in the shape of a rectangular prism is 62 inches long, 22 inches wide, and 19 inches deep. What volume of water can the bathtub hold?

☐ V = in^3

6.

Customary American Units of Length
1 foot = 12 inches 1 yard = 3 feet or 36 inches 1 mile = 1,760 yards or 5,280 feet

Convert.
4 feet 9 inches = inches
7.

Convert.
3 ⁄4 mile = feet
8.
Convert.
2 ½ miles = feet
9.
Convert.
38 inches = feet inches
10.
The course for the frog hopping race is 59 inches long. Max's frog has jumped 2 feet and 3 inches. How much further does Max's frog need to jump in order to reach the finish line?
feet inches
11.

Drag the measurements to the correct box to convert
2 T 35 lb to pounds. Then type in the answer.

12.
Convert.
½ ton = ounces
13.
Convert.
13 ¼ pounds = ounces
14.
Convert.
130 ounces = pounds ounces
15.
Chuck's house weighs 100,000 pounds. He removes all of his belongings, which weigh 10,000 pounds. Movers are using Crib Jacks to lift the house, which can only handle up to 15 tons of weight each. How many Crib Jacks will the movers use to lift Chuck's house?
Crib jacks
16.

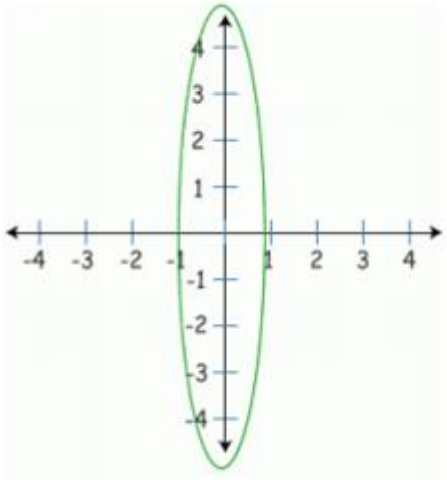
Drag the measurements to the correct box to convert
4 c 2 oz to ounces. Then type in the answer.

17.
Convert.
1/8 cup = ounces
18.
The gas tank in the car holds 20 gallons of gasoline. You used up 4 gallons and 1 quart on your trip. How much gasoline is left in the tank?
gallons quarts
19.
Convert.
5.1 meters = centimeters
20.
Convert.
3 meters 8 decimeters = decimeters
21.
Convert.
135 millimeters = decimeters millimeters
22.
Convert.
5 [Equation] decigrams = centigrams
23.
If a binder weighs 299 grams and one piece of notebook paper weighs 4 grams, what is the kilogram weight of a binder that is holding 70 sheets of paper?
kilograms
24.
Convert.
4 ½ hectoliters = decaliters
25.
A 2 liter drink costs $0.10 per deciliter. How much does the drink cost?
$
26.
A recipe for lemon cranberry pound cake calls for 80 milliliters of lemon juice and 240 milliliters of plain yogurt. How many liters of lemon juice and yogurt are needed to make 11 cakes?
Liters milliliters
27.
Drag up the correct number of tens to complete the conversion of [Equation] kiloliter to liters.Then write the answer.
28.
Drag the correct operation to each conversion statement.
29.
Don bought 3 ½ quarts of ice-cream for a party. Four pints were eaten. How many pints remained?
pints
30.
To make lemonade, you used one gallon of water, four quarts of lemon juice, and 32 ounces of honey. How much lemonade did you make?

quarts

Domain Name: Geometry

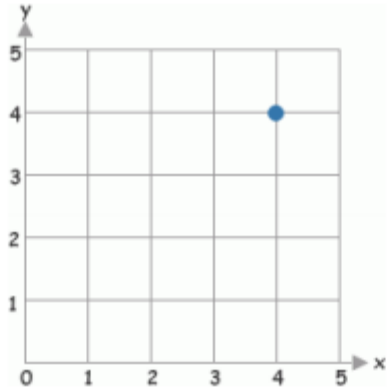
1.



The vertical number line in a coordinate system is called the _____.

- x-axis
- slope
- origin
- y-axis
- none of the above

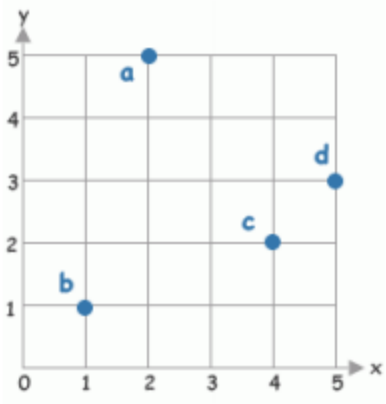
2.



What are the coordinates of the blue dot?

☐☐ (,)

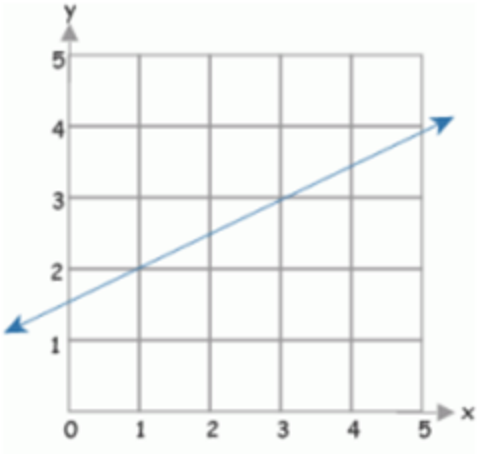
3.



Which letter is at (4, 2)?

- a
- b
- c
- d
- no letter is at these coordinates

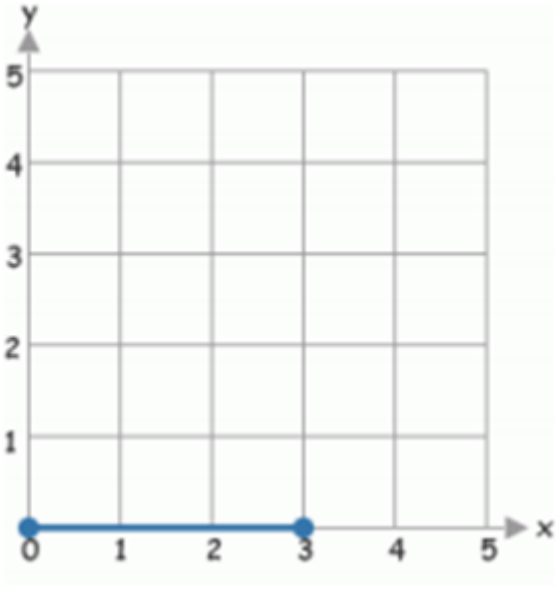
4.



Which two points are on the blue line?

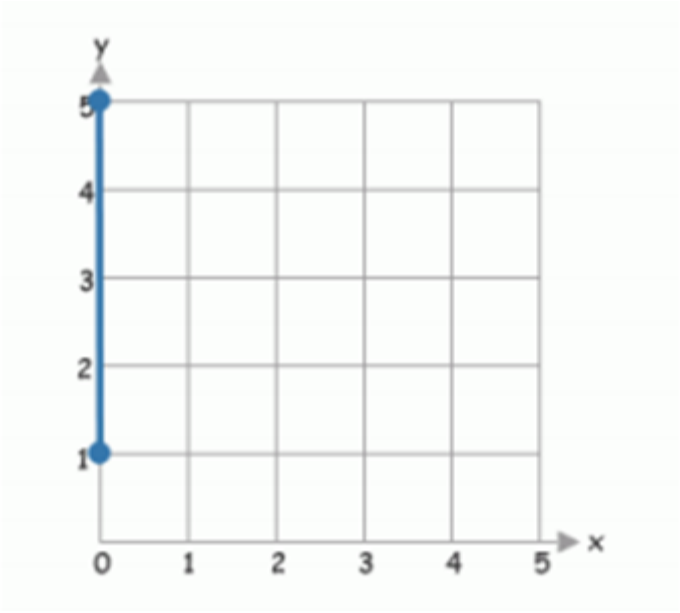
- (1, 2), (3, 3)
- (1, 2), (1, 3)
- (2, 1), (3, 3)
- (2, 2), (3, 3)
- (1, 2), (3, 1)

5.



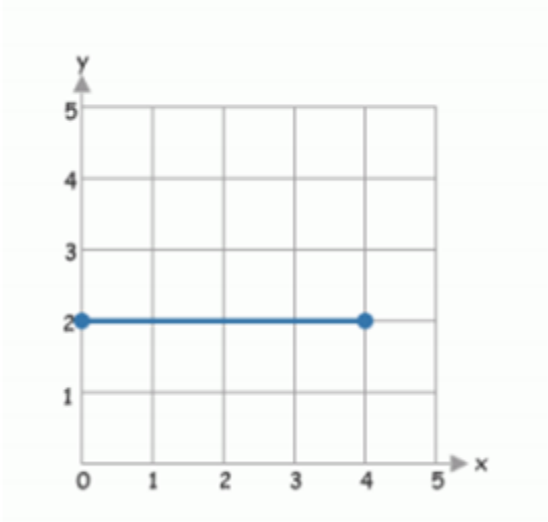
Find the length of the line segment.
units

6.



Find the length of the line segment.
units

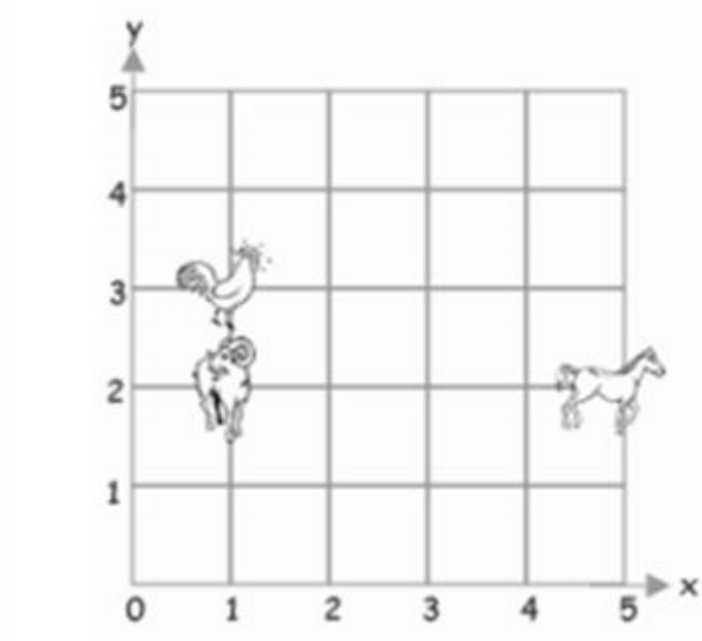
7.



Find the length of the line segment.

Units

8.



You started your walk at the rooster's barn and then went down to see the goat before you went to ride the horse. How far did you walk?

Units

9.

This plane figure has one pair of parallel sides. What plane figure is this?

- Rectangle

- Parallelogram
- Rhombus
- Circle
- Trapezoid

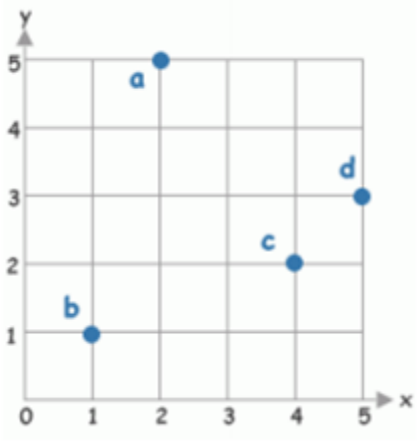
10.

	Polygon	Quadrilateral	Trapezoid	Parallelogram	Rhombus	Rectangle	Square
Is a closed plane figure	x	x	x	x	x	x	x
Formed by line segments	x	x	x	x	x	x	x
Has four sides		x	x	x	x	x	x
Has one or two pairs of parallel opposite sides			x	x	x	x	x
Has two pairs of parallel opposite sides				x	x	x	x
Has four right angles						x	x
Has all equal length sides					x		x

What are the properties of a trapezoid?
Check all that are true.

- Has one or two pairs of parallel sides
- Has four sides
- All sides are the same length
- Is a closed plane figure

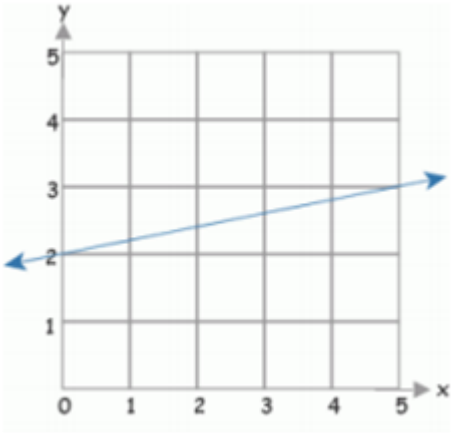
11.



Which letter is at (2, 5)?

- a
- b
- c
- d
- No letter is at these coordinates.

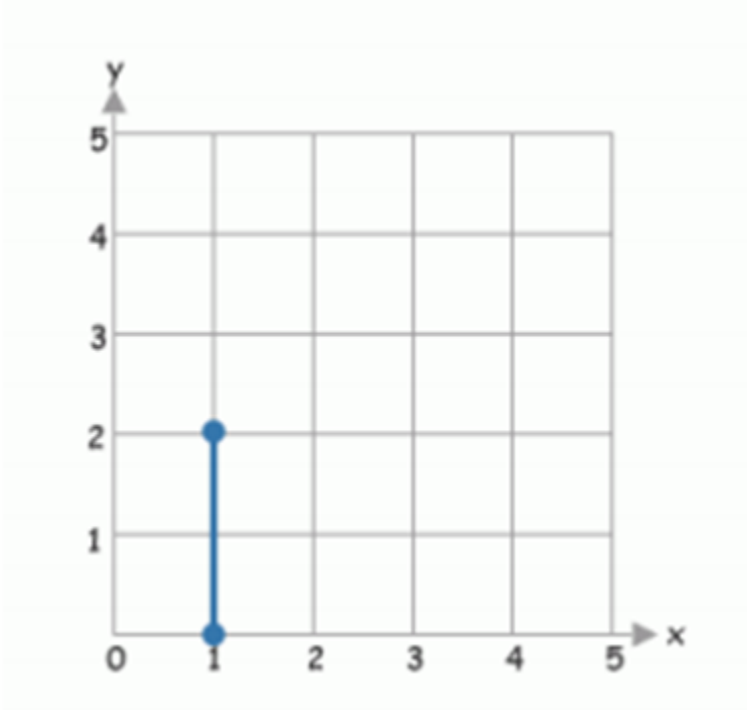
12.



Which two points are on the blue line?

- (1, 2) (5, 3)
- (0, 2) (3, 3)
- (0, 2) (5, 3)
- (1, 2) (3, 5)
- (2, 0) (3, 5)

13.



Find the length of the line segment.

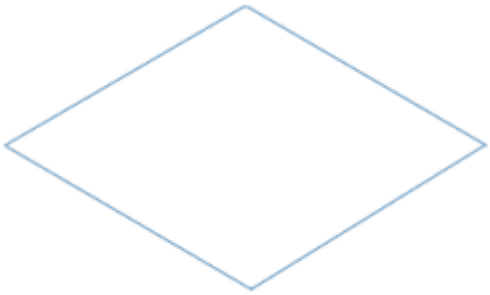
Units

14.

What plane figure is this?

- Rectangle
- Circle
- Quadrilateral
- Polygon
- Square

15.



This figure has four equal sides with two pairs of parallel sides. What plane figure is this?

- Square
- Rhombus
- Rectangle
- Circle
- Line segment

16.

This plane figure has no pairs of parallel sides. What plane figure is this?

- Square
- Quadrilateral
- Rhombus
- Rectangle
- Parallelogram

17.

What property does a square have that a rectangle does not always have?

- Has equal length sides
- Has four right angles
- Opposite sides are always parallel

- Has four sides
- none of the above

18.

What properties does a trapezoid have in common with a parallelogram?
Check all that are true.

- Is a closed plane figure
- Has at least one pair of parallel sides
- Has right angles
- All sides are the same length
- Always has four sides

19.

	Polygon	Quadrilateral	Trapezoid	Parallelogram	Rhombus	Rectangle	Square
Is a closed plane figure	×	×	×	×	×	×	×
Formed by line segments	×	×	×	×	×	×	×
Has four sides		×	×	×	×	×	×
Has one or two pairs of parallel opposite sides			×	×	×	×	×
Has two pairs of parallel opposite sides				×	×	×	×
Has four right angles						×	×
Has all equal length sides					×		×

What are the properties of a rhombus?
Check all that are true.

- All sides are the same length
- Has two pairs of parallel sides
- Has four sides
- Is a closed plane figure
- Has only one pair of parallel sides

20.

	 Polygon	 Quadrilateral	 Trapezoid	 Parallelogram	 Rhombus	 Rectangle	 Square
Is a closed plane figure	x	x	x	x	x	x	x
Formed by line segments	x	x	x	x	x	x	x
Has four sides		x	x	x	x	x	x
Has one or two pairs of parallel opposite sides			x	x	x	x	x
Has two pairs of parallel opposite sides				x	x	x	x
Has four right angles						x	x
Has all equal length sides					x		x

What are the properties of a parallelogram?
Check all that are true.

- All sides are the same length
- Has only one pair of parallel sides
- Has two pairs of parallel sides
- Has four sides Is a closed plane figure

.