

Integers and the Coordinate Plane

- 1** Compare the two numbers. Is the first less than, equal to, or greater than the second?

$$1.73 \quad \bigcirc \quad \frac{173}{100}$$

A	=	B	>
C	<		

- 2** Put these numbers in order from smallest to largest.

$$|-1|, \quad \left| -\frac{4}{3} \right|, \quad -1.\bar{3}$$

A	$-1.\bar{3}, \quad -1 , \quad \left -\frac{4}{3} \right $	B	$\left -\frac{4}{3} \right , \quad -1 , \quad -1.\bar{3}$
C	$ -1 , \quad \left -\frac{4}{3} \right , \quad -1.\bar{3}$	D	$ -1 , \quad -1.\bar{3}, \quad \left -\frac{4}{3} \right $

- 3** Compare the two numbers. Is the first less than, equal to, or greater than the second?

$$\frac{2}{3} \quad \bigcirc \quad -\frac{4}{9}$$

A	=	B	<
C	>		

- 4** Simplify the expression.

$$-3 \cdot |8|$$

A	-24	B	-8
C	24		

- 5** Simplify the expression.

$$\frac{4}{-4 \cdot |1|}$$

A	1	B	-1
C	0	D	-2

- 6** Find the distance between the given (x,y) points

Point A : (3,1)

Point B : (4,1)

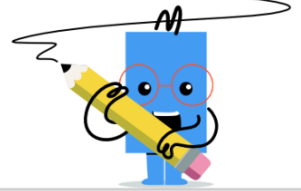
A	3	B	4	C	0
D	1	E	2		

- 7** Find the direction that the given move between (x,y) coordinates A and B would be

Point A : (-2,0)

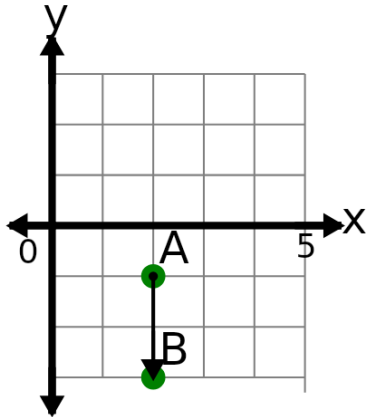
Point B : (1,5)

A	Right 3, Up 5	B	Right 5, Down 3
C	Right 3, Down 5	D	Right 4, Up 5
E	Right 3, Up 4	F	Right 3, Up 6



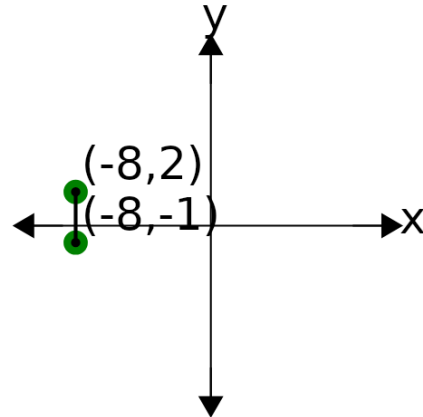
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- 8** Find the distance between point A and point B on the diagram



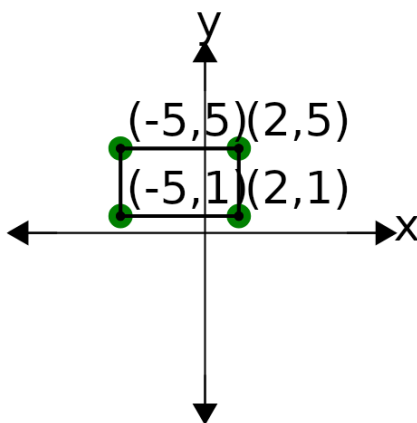
A 3	B 0	C 4
D 1	E 5	F 2

- 9** Find the length of the line that goes between the two coordinates



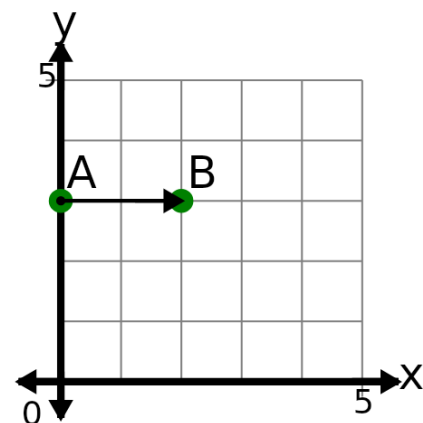
A 6	B 4	C 3
D 12	E 10	F 7

- 10** Find the perimeter of the rectangle formed by these coordinates

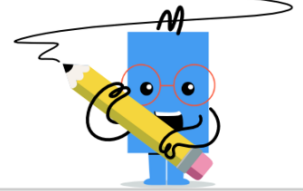


A 22	B 14	C 6
D 32	E 18	F 28

- 11** Find the distance between point A and point B on the diagram

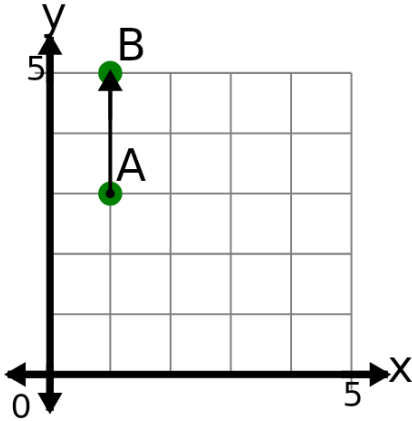


A 1	B 0	C 2
D 3	E 5	



Integers and the Coordinate Plane

12 Find the direction to go from point A to point B on the diagram



- | | | |
|-------------|-------------------|--------------|
| A
Down 2 | B
Up 2 | C
Up 1 |
| D
Left 2 | E
Left 1, Up 2 | F
Right 2 |

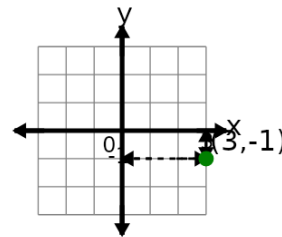
13 Find the direction that the given move between (x,y) coordinates A and B would be

Point A : (3, -3)

Point B : (3, -1)

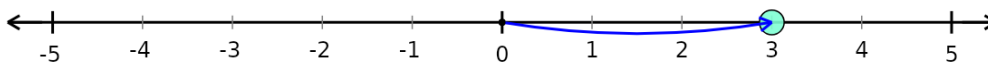
- | | |
|--------------------|-------------------|
| A
Up 1 | B
Up 2 |
| C
Down 2 | D
Left 2 |
| E
Right 1, Up 2 | F
Left 1, Up 2 |

14 What does the value -1 in the point's coordinate mean?



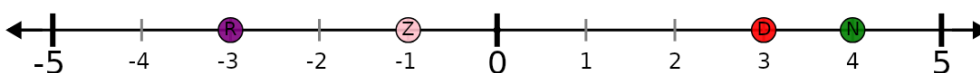
- | |
|-----------------------|
| A
y is equal to -1 |
| B
y is equal to 1 |
| C
x is equal to -1 |
| D
x is equal to 1 |

15 What operation is shown?

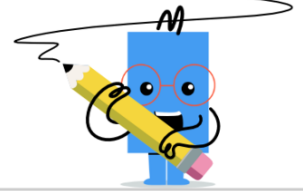


- | |
|--------------|
| A
$+(-3)$ |
| B
$+3$ |
| C
-3 |

16 What dot is at 3?



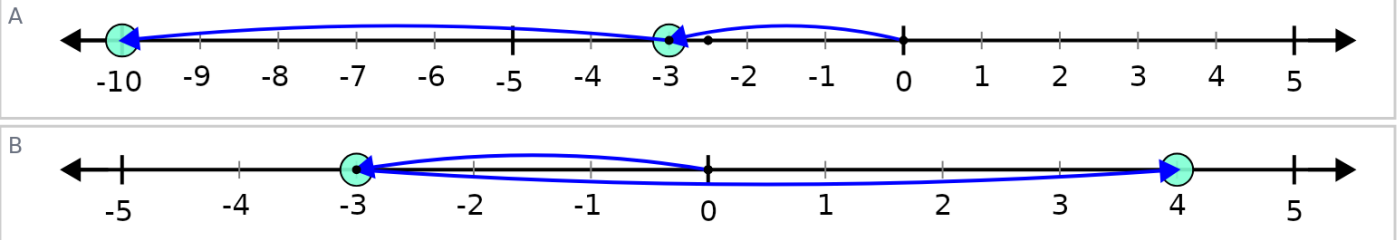
- | |
|--------|
| A
N |
| B
D |
| C
Z |
| D
R |



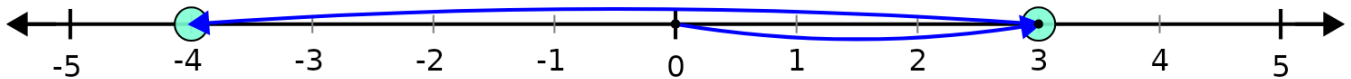
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17 Which number line shows this addition equation?

$$(-3) + (-7) = -10$$



18 What addition equation is shown?



A $3 + (-7) = -3$

B $3 + (-5) = -4$

C $3 + (-7) = -5$

D $3 + (-7) = -4$

E $6 + (-7) = -4$

F $3 - (-7) = -4$

19 Compare the two numbers. Is the first less than, equal to, or greater than the second?

$$1.3 \quad \bigcirc \quad \frac{13}{10}$$

A $=$

B $<$

C $>$

20 Put these numbers in order from smallest to largest.

$$1.95, \quad -2.09, \quad -2.15$$

A $1.95, \quad -2.09, \quad -2.15$

B $-2.15, \quad -2.09, \quad 1.95$

C $-2.15, \quad 1.95, \quad -2.09$

D $1.95, \quad -2.15, \quad -2.09$

21 Which number is between -4 and -3?

A -3.58

B -2.6

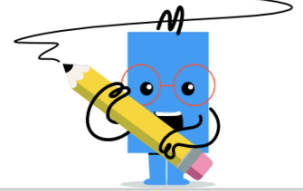
C -2.64

22 Which number is between -2 and -1?

A $-\frac{1}{4}$

B $-\frac{3}{2}$

C $-\frac{7}{3}$



Integers and the Coordinate Plane

23 Is the given item colder or hotter than the measurement

Is temperature of a warm bowl of soup colder or hotter than 35 degrees celsius?

A

hotter

B

colder

24 Is the given item colder or hotter than the measurement

Is temperature outside on a mild, snowy day colder or hotter than 83 degrees fahrenheit?

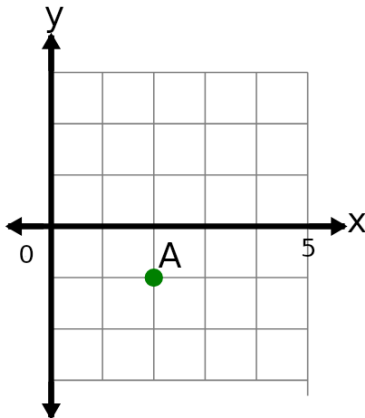
A

hotter

B

colder

25 Identify the coordinates of the point labelled 'A'



A

(3,-1)

B

(2,1)

C

(2,-1)

D

(-1,2)

E

(-2,-1)

F

(-1,-2)

26 Order these numbers from lowest to highest

6,283

3,628

8,362

3,836

A

3628

3836

6283

8362

B

3628

6283

3836

8362

C

6283

3836

8362

3628

27 Order these numbers from lowest to highest

5

7

3

A

5

7

3

B

7

5

3

C

3

5

7

28 Order these numbers from lowest to highest

719

971

797

A

719

971

797

B

797

971

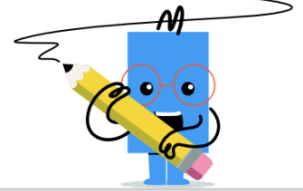
719

C

719

797

971



Integers and the Coordinate Plane

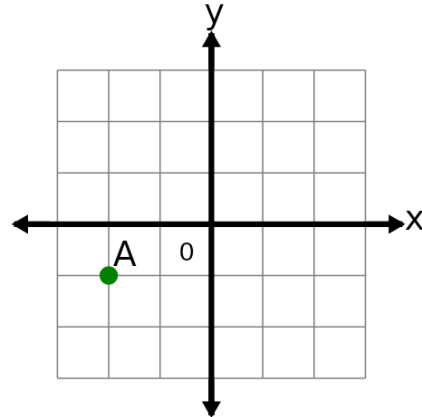
29 Order these numbers from highest to lowest

937
793
979
393

A	B
793	793
979	937
937	393
393	979

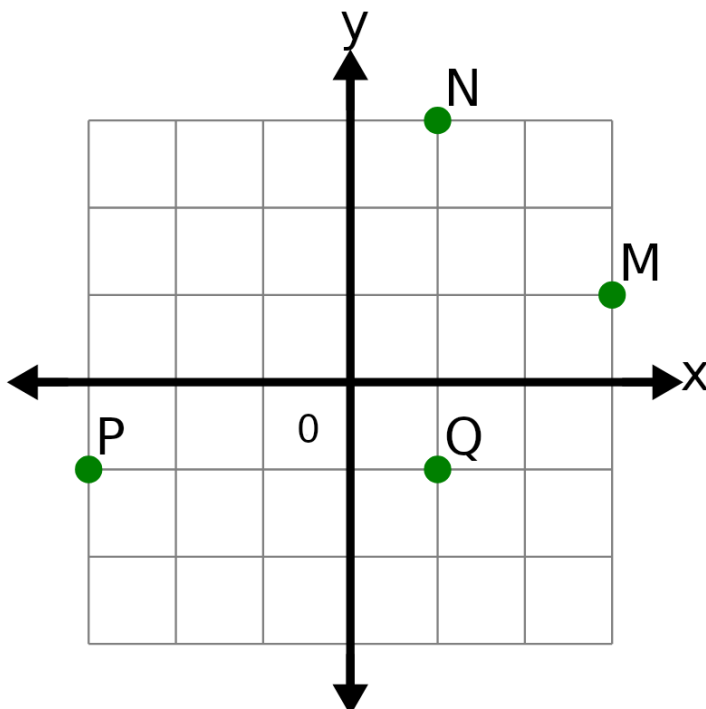
C
979
937
793
393

30 Identify the values of 'x' and 'y' for the point labelled 'A'

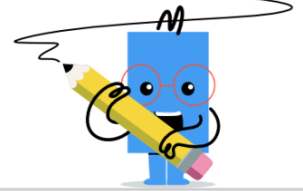


A $x = -2,$ $y = -1$	B $x = -2,$ $y = 1$	C $x = -1,$ $y = 2$
D $x = -2,$ $y = 0$	E $x = -1,$ $y = -1$	F $x = 2, y$ $= -1$

31 Identify which point is at (x,y) location (3,1)

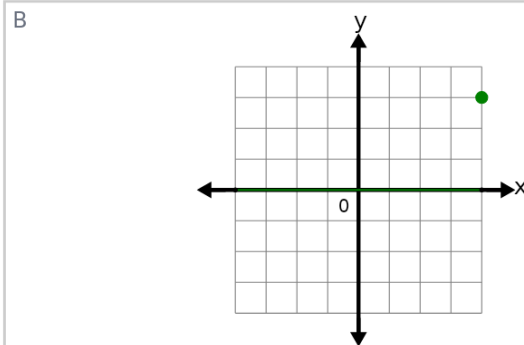
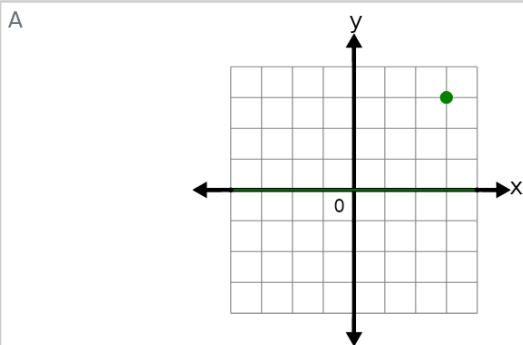
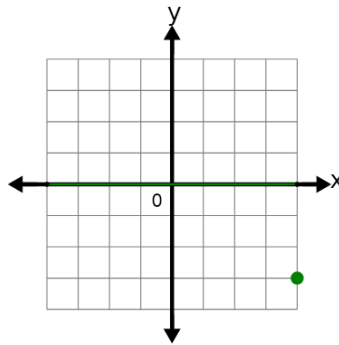


A	P
B	Q
C	M
D	N

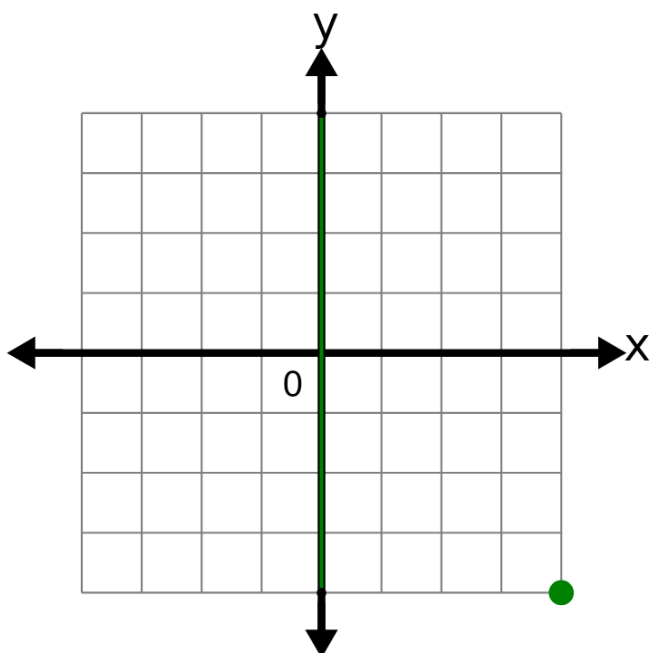


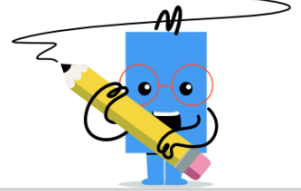
Integers and the Coordinate Plane

32 Reflect this point across the X axis



33 Reflect this point across the Y axis





Integers and the Coordinate Plane

34 Reflect point $(-4,3)$ across the Y axis

$(-4,3)$

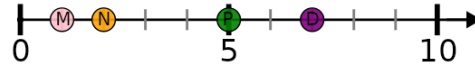
A

$(4,3)$

B

$(-4,3)$

35 What dot is at 7?



A

M

B

N

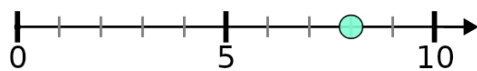
C

P

D

D

36 What number does is this dot at?



A

1

B

0

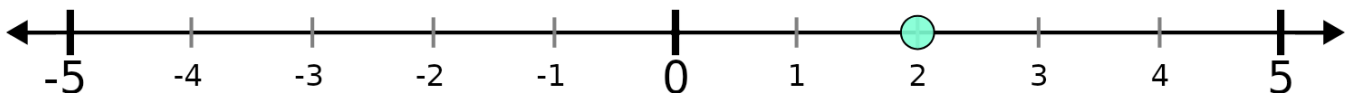
C

4

D

8

37 What number does is this dot at?



A

-3

B

-5

C

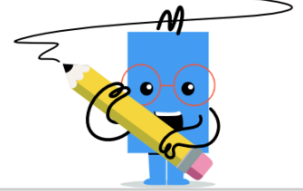
2

D

0

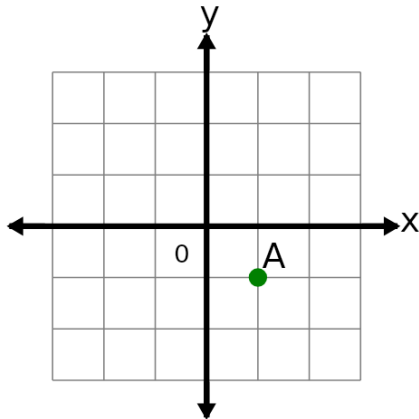
E

-1



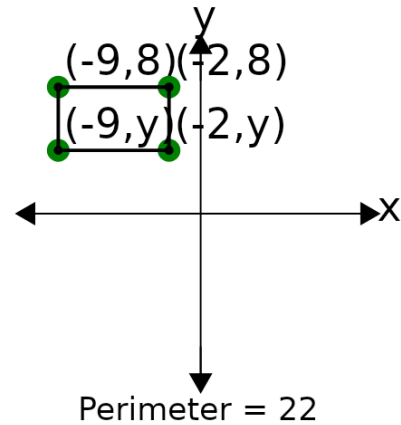
Integers and the Coordinate Plane

38 Identify the coordinates of the point labelled 'A'



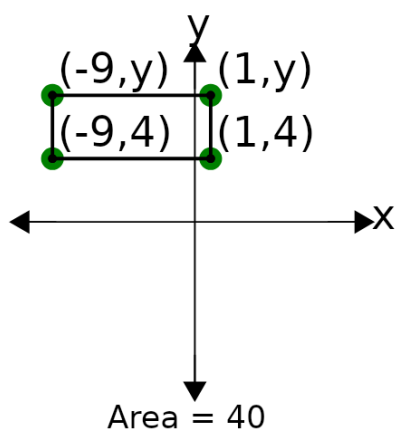
A (1,-1)	B (1,1)	C (1,0)
D (-1,1)	E (2,-1)	F (-1,-1)

39 Find the missing value for y if the rectangle has a perimeter of 22



A 4	B -2	C 8
D -3	E 9	F 2

40 Find the missing value for y if the rectangle has an area of 40



A -2	B 8	C 1
D 9	E 10	F 3