Think Academy

BIWEEKLY MATH BANG

January

G7

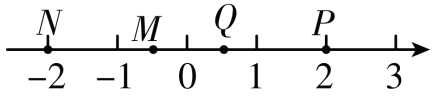
Vol.1

Basic Pratice

1 1. $|5| =$ _____ 2. $|-5| =$ _____

2 1. $-|7| =$ _____ 2. $-|-7| =$ _____

3 Which of the following points is opposite to 2?



A. N B. M C. Q D. P

4 Find the opposite number of the following numbers.

	2	-5	$\frac{1}{3}$	$-\frac{1}{5}$	0	$a-b$	$a+b$
opposite							

5 If a number is smaller than its opposite, it must be a _____ .

A. positive number
B. negative number
C. non-positive number
D. non-negative number

6 Simplify:

(1) $+(-8) =$ _____ .

(2) $-(+51) =$ _____ .

(3) $-(-3.14) =$ _____ .

(4) $-[+(-10)] =$ _____ .

(5) $-\{-[-(-18)]\} =$ _____ .

7 1. $-|-8|+|8| =$ _____

2. $-|-8|+|-8| =$ _____

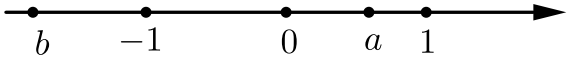
8 1. When $x > 0$, $|x| =$ _____

2. When $x < 0$, $|x| =$ _____

3. When $x = 0$, $|x| =$ _____

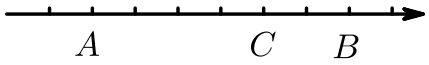
Amazing Time

1 Which of the following is correct?



A. $ab = 0$ B. $|b| < |a|$ C. $b < 0 < a$ D. $a + b > 0$

2 A, B and C are points on the number line. If two of the three points represents a pair of opposite number, C might equal to _____ .



A. -2 B. 0 C. 1 D. 4

3 Which of the following is opposite to $3 - a$?

A. $3 + a$ B. $-3 - a$ C. $-(3 - a)$ D. $\dfrac{1}{3 - a}$

4 1. The opposite of $-|-5|+|11|$ is _____ .

2. The opposite of $|-7|+|-12|$ is _____ .

5 Find the opposite of $|-11|$: _____ .

Find the opposite of $-|3+|-5||$: _____ .

6 Find the distance between number -7 and 12 on the number line _____ .

7 Which of the following expressions can not equal to 0?

A. $|a + 1|$ B. $|-1| + a$ C. $|a| + 1$ D. $1 - |a|$

Challenge It

1 $|x-1|+|y-3|=0$, $y-x-\frac{3}{2}=$ _____

2 $|a-12|+|b+7|=0$, $a+b$ _____ .

3 If $|x-1|+|y+2|+|z-3|=0$, $(x-1)(y-2)(z+3)=$ _____

A. 48 B. −48 C. 0 D. xyz

4 If $a < 0 < b < c$, $|a - b| + |b - c| =$ _____ .

A. $c - a$ B. $c - b$ C. $a - c$ D. $2c$

5 If $|a| = 3, |b| = 2$, then $a + b =$ _____ .

A. 5 B. -5 C. ± 5 D. ± 5 or ± 1

Answers

Basic Pratice

1. 5; 5
2. −7; −7
3. A
4.

	2	−5	$\frac{1}{3}$	$-\frac{1}{5}$	0	$a-b$	$a+b$
opposite	−2	5	$-\frac{1}{3}$	$\frac{1}{5}$	0	$b-a$	$-a-b$

5. B
6. (1) −8
   (2) −51
   (3) 3.14
   (4) 10
   (5) 18
7. 0; 0
8. x; $-x$; 0

Amazing Time

1. C
2. C
3. C
4. −6; −19
5. −11; 8
6. 19
7. C

Challenge It

1. $\frac{1}{2}$
2. 5
3. C
4. A
5. D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