

Math 6

Integers and Absolute Value Study Guide

Summative Assessment Date: _____

What do I need to know for the quiz on Integers and Absolute Value?

- Identify and represent integers as positive, negative numbers, or zero.
- Order and compare integers on a number line.
- Identify and describe absolute value of integers as the distance that number is from zero on a number line.

Will I be able to use a calculator during the quiz?

Yes! Calculators will be provided during the assessment.

How can I prepare for the assessment?

- Complete all classwork and homework prior to the assessment;
- ASK questions BEFORE the assessment;
- Get help if you need it;
- Complete the attached practice problems; and
- Use 6th grade IXL to help improve your understanding and test score!

Strand	Description
M.1	Understanding integers
M.2	Absolute Value and opposite integers
M.3	Integers on number lines
M.4	Graph integers on number lines
M.5	Compare and order integers

Evaluate:

1) $ -5 =$	2) $ 17 =$	3) $ 0 =$	4) $ -50 =$
5) $ 28 - 12 =$	6) $ 33 + 15 =$	7) $ 17 - 16 =$	8) $ -82 =$
9) $ -15 - -12 =$	10) $ 2 + -35 =$	11) $ -101 =$	12) $ -27 - -18 =$

13) Identify (circle) EACH statement that is **NOT** true.

A) $|-10| = 10$

B) $|0| = 0$

C) $|-26| = -26$

D) $|-7| = -7$

E) $|9| = -9$

F) $|-15| = 15$

14) Identify (circle) **EACH** integer.

A) -9

B) $\frac{12}{6}$

C) 0

D) 1.25

F) -14

G) $\frac{2}{3}$

H) -15.5

I) -186

DIRECTIONS: For questions 15-22, write an integer for each situation.

15) Outside temperature of 65°

16) Deposit of \$75

17) 4° below zero

18) Altitude of 20,000

19) Sea level

20) Withdraw of \$95

21) Weight loss of 12 pounds

22) One dozen donuts

DIRECTIONS: For questions 23-28, answer the following using $>$, $<$, or $=$.

23) -6 _____ -8

24) $|-10|$ _____ $|12|$

25) -27 _____ 27

26) $|-4|$ _____ $|4|$

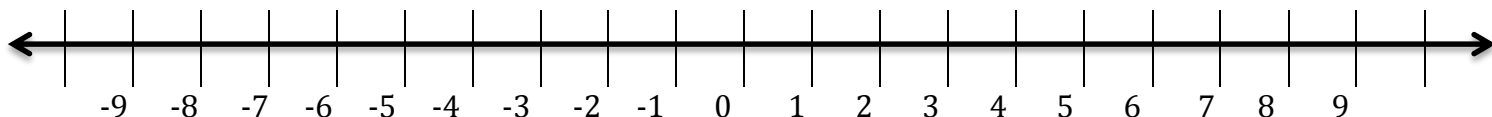
27) -7 _____ -8

28) $|3|$ _____ -3

29) Identify each number that has an absolute value of 16.

$\frac{1}{16}$	$\frac{16}{1}$	16
$\frac{32}{2}$	-16	$\frac{32}{4}$

DIRECTIONS: For problems 30-37, circle the integers in the problems below. Then graph the largest integer from each question on the number line below.



30) $0, -2, 1.5$ largest integer _____

31) $\frac{9}{3}, 4, -44$ largest integer _____

32) $-1, \frac{1}{2}, -6$ largest integer _____

33) $0.7, |-5|, -7$ largest integer _____

34) $6, 9, 0$ largest integer _____

35) $-15.0, -15.01, 1$ largest integer _____

36) $-4, \frac{21}{7}, \frac{7}{21}, 7$ largest integer _____

37) $0, -7, |-2|$ largest integer _____

38) Pick any three integers that are **greater than 0** and write them in **DESCENDING** order.

_____, _____, _____

39) Pick any three integers that are **less than -7** and write them in **DESCENDING** order.

_____, _____, _____

Answer Key

- 1) 5
- 2) 17
- 3) 0
- 4) 50
- 5) 16
- 6) 48
- 7) 1
- 8) 82
- 9) 3
- 10) 37
- 11) 101
- 12) 9
- 13)
 - A. True
 - B. True
 - C. Not True
 - D. Not True
 - E. Not True
 - F. True
- 14)
 - A. Integer
 - B. Integer
 - C. Integer
 - D. Not Integer
 - F. Integer
 - G. Not integer
 - H. Not integer
 - J. Integer
- 15) 65
- 16) 75
- 17) -4
- 18) 20,000
- 19) 0
- 20) -95
- 21) -12
- 22) 12
- 23) >
- 24) <
- 25) <

26) =

27) >

28) >

29) $16/1$, 16 , $32/2$, and -16

30-37 also need to be graphed

30) Largest integer 0

31) Largest integer 4

32) Largest integer -1

33) Largest integer 5

34) Largest integer 9

35) Largest integer 1

36) Largest integer 7

37) Largest integer 2

38) Answers will vary

39) Answers will vary