

Name Key
Period _____

Study Guide Due:
Test Date:

Unit 5 Math Study Guide: Integers and Rational Numbers

Compare. Use $<$, $>$, or $=$.

1) $16 > -16$

2) $-9 < -8$

3) $-3 < -1$

4) $0 > -4$

Complete each sentence with a word that makes it true.

5) All negative integers are less than zero.

6) The opposite of a positive number is negative.

Write each as an integer.

7) Loss of 8 yards -8

8) 7,684 feet above sea level 7,684

Write the opposite

9) 7 -7

10) 6 -6

11) 9 -9

12) -15 15

Find the absolute value.

13) $-|2| = -2$

14) $|3| = 3$

15) $|-5| = 5$

16) $-|-4| = -4$

Convert the following to either a fraction or decimal.

17) 2.1...

- A) $2\frac{1}{9}$ B) $2\frac{1}{10}$ C) $\frac{1}{11}$ D) $\frac{1}{9}$

18) $-1\frac{1}{5}$

- A) 0.2 B) 1.2 C) -0.2 D) -1.2

19) $\frac{5}{8}$

- A) 0.526 B) 0.625 C) 1.6 D) 5.8

20) -0.08

- A) $-\frac{8}{10}$ B) $\frac{2}{25}$ C) $-\frac{2}{25}$ D) $-\frac{2}{5}$

Order the numbers from least to greatest.

21) -2, 12, 54, 0, ~~18~~, ~~3~~

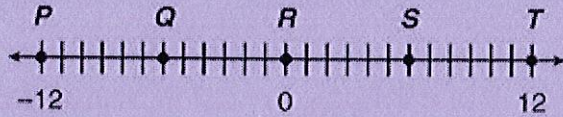
-18, -5, -2, 0, 12, 54

22) $\frac{1}{9}$, 18.2, ~~$-\frac{37}{8}$~~ , 0.75

$-\frac{37}{8}$, $\frac{1}{9}$, 0.75, 18.2

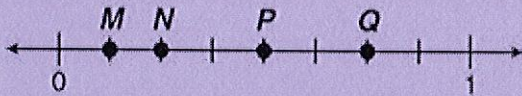
Solve the following questions. Use the table in #23 for #23-26.

23) Which letter represents the opposite of -12?



T

24) Which point represents $\frac{1}{4}$ on the number line below?



N

25) The low temperature on Wednesday was 9°C . The low temperature on Thursday was -3°C . How much colder was it on Thursday than Wednesday?

12°C

26) Below is a chart with a selection of some of the tallest lighthouses in the world. Use these facts to complete the table:

- The Lighthouse of Genoa is 6m lower than the Ile Vierge,
- The Jeddah Light is 26m higher than the Perry memorial Monument.
- The Yokohama Marine Tower is 18m higher than the Ile Vierge.

Lighthouse	Height (m)
Ile Vierge	83
Jeddah Light	133
Lighthouse of Genoa	77
Perry Memorial Monument	107
Phare de Gatteville	75
Yokohama Marine Tower	101

27) Order the lighthouses above from tallest to shortest.

- A) Jeddah Light, Phare de Gatteville, Yokohama, Perry Memorial, Genoa, Ile Vierge
- B) Jeddah Light, Perry Memorial, Yokohama, Ile Vierge, Genoa, Phare de Gateville**
- C) Ile Vierge, Jeddah Light, Genoa, Perry Memorial, Phare de Gatteville, Yokohama Marine
- D) Phare de Gateville, Geona, Ile Vierge, Yokohama, Perry Memorial, Jeddah Light

28) What is the difference between the Perry Memorial Monument and the Phare de Gatteville?

- A) 75 m
- B) 32 in
- C) 107 in
- D) 32 m**

29) What is the difference between the Ile Vierge and the Jeddah Light?

- A) 50 m**
- B) 83 m
- C) 50 in
- D) 133 m