

Study Guide- Representing Integers and Opposites Test

The doctors at Stonecrest Medical Center have a standard time in which they are expected to perform a physical exam. They are expected to finish an exam in 27 minutes. If the doctors perform the exam too quickly, they may not be as careful and thorough as they should be. If they take too long to perform an exam, they are wasting the hospital's time. They are giving a 3.4 minute buffer. This means that if they go over their expected time by more than 3.4 minutes or they go under their expected time by more than 3.4 minutes, they will be called in to the boss's office to discuss their performance. Below are some doctors at the hospital and how long they went over or under the target time. Look at each doctor and decide if they will be called into their boss's office. Choose A for Yes and B for No.

- 1) Dr. Sloan: 3.7 minutes
 - 2) Dr. Grey: -3.3 minutes
 - 3) Dr. Bailey: -2.2 minutes
 - 4) Dr. Webber: 27 minutes
 - 5) Dr. Shepherd: 0 minutes
- 6) (Write on your paper- you won't be able to put this into your clicker) Arizona told her friend that the opposite of 17 is 71. Is she correct? Explain why or why not.

Match the integer with the situation

a) 23 b) -23 c) 7 d) -7 e) 15 f) -15 g) 1.2 h) -1.2 i) 100 j) -100 k) 45 l) -45 m) 0			
7) The boat is at sea level.		11) The temperature dipped 1.2 degrees.	
8) The girl earned 23 house points.		12) The plane descended 100 feet.	
9) The man deposited 100 dollars.		13) 15 new students enrolled at LMS.	
10) 7 points were deducted from the grade.		14) The store turned a profit of \$45	

15) Aaron wrote a number that is the opposite of 5. What number did Aaron write?

- a) -5 b) 1/5 c) 5 d) -1/5

Alex recorded in this table the change in the points of his grade in math class over 5 weeks.

Week 1	Week 2	Week 3	Week 4	Week 5
- 12	+12	+7	-23	+25

Look at each statement. Can it be supported by the data in the table? Select A for Yes and B for No.

- 16) Alex's grade went down every week because Alex did not study.
- 17) Alex's grade went up in more weeks than it went down because there are more positive numbers than negative numbers.
- 18) Alex's grade went down in more weeks than it went up because 23 is the greatest digit and it is a negative number.
- 19) Alex's grade went up every week because the change in week 5 is a positive number.

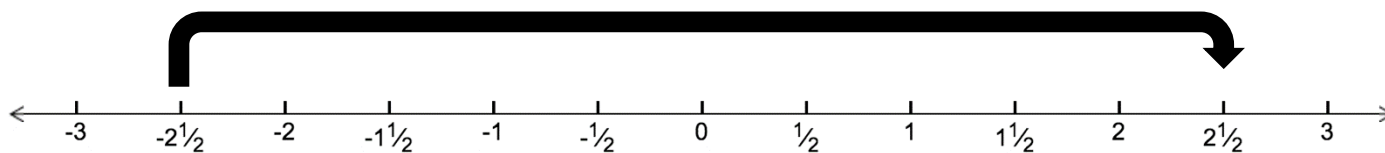
Can the situation be represented by a negative number? Choose A for Yes and B for No.

- 20) Greg's bank account received a deposit of \$250.00
- 21) Harold is in debt to Target for \$45.00
- 22) The fish is swimming 400 feet below sea level.
- 23) The Tennessee Vols scored 54 points.
- 24) Blue bought pants for 24 dollars.

Look at each number. Is it located on opposite side of 0 on the number line from the opposite of 8? Select A for Yes and B for No.

- 25) -8
- 26) -4
- 27) 2
- 28) -2
- 29) 12
- 30) 0

31) What is shown on the number line below?



- a. The opposite of 0 is $2 \frac{1}{2}$
- b. The opposite of $2 \frac{1}{2}$ is $2 \frac{1}{2}$
- c. The opposite of $-(-2 \frac{1}{2})$ is $2 \frac{1}{2}$
- d. The opposite of $-2 \frac{1}{2}$ is $2 \frac{1}{2}$