

# Practice: Understanding Positive and Negative Numbers



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Date: \_\_\_\_\_

Type: PRACTICE

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**Instructions:** Solve each problem involving positive and negative numbers, number lines, opposites, and absolute value. Show your work where appropriate.

1. What integer represents 8 degrees below zero?

Answer: \_\_\_\_\_

2. What is the opposite of 15?

Answer: \_\_\_\_\_

3. Find the absolute value:  $|-7|$

Answer: \_\_\_\_\_

4. Which number is farther from zero on a number line: -9 or 6?

Answer: \_\_\_\_\_

5. What is the opposite of -12?

Answer: \_\_\_\_\_

6. Find the absolute value:  $|23|$

Answer: \_\_\_\_\_

**7.** A submarine is 45 feet below sea level. What integer represents its position?

Answer: \_\_\_\_\_

**8.** Order these numbers from least to greatest: 4, -8, 0, -2, 7

Answer: \_\_\_\_\_

**9.** What integer is 3 units to the left of -1 on a number line?

Answer: \_\_\_\_\_

**10.** Find the absolute value:  $|0|$

Answer: \_\_\_\_\_

**11.** Compare using  $<$ ,  $>$ , or  $=$ :  $|-6|$  \_\_\_\_  $|6|$

Answer: \_\_\_\_\_

Show your work:

**12.** What is the distance between -8 and -3 on a number line?

Answer: \_\_\_\_\_

Show your work:

**13.** A football team gained 12 yards, then lost 18 yards. What integers represent these plays?

Answer: \_\_\_\_\_

Show your work:

**14.** Find the absolute value:  $| -(-9) |$

Answer: \_\_\_\_\_

Show your work:

**15.** Which integers have an absolute value of 11?

Answer: \_\_\_\_\_

Show your work:

**16.** Order these numbers from greatest to least:  $| -5 |$ ,  $-8$ ,  $| 3 |$ ,  $-| -4 |$

Answer: \_\_\_\_\_

Show your work:

**17.** What integer is the same distance from 0 as  $-15$  but in the opposite direction?

Answer: \_\_\_\_\_

Show your work:

**18.** A bank account had \$200, then had three transactions: -\$50, +\$75, -\$30. List all the integers involved.

Answer: \_\_\_\_\_

Show your work:

**19.** Compare using  $<$ ,  $>$ , or  $=$ :  $-|-7|$  \_\_\_\_  $-|7|$

Answer: \_\_\_\_\_

Show your work:

**20.** Find the value of  $x$  if  $|x| = 13$  and  $x < 0$

Answer: \_\_\_\_\_

Show your work:

**21.** What is the sum of a number and its opposite?

Answer: \_\_\_\_\_

Show your work:

**22.** If  $|a| = 8$  and  $|b| = 5$ , what are all possible values of  $|a| - |b|$ ?

Answer: \_\_\_\_\_

Show your work:

**23.** An elevator starts at floor 5, goes down 8 floors, then up 12 floors, then down 15 floors. If basement levels are negative, what floor is the elevator on?

Answer: \_\_\_\_\_

Show your work:

**24.** For what values of  $x$  is  $|x| = x$ ?

Answer: \_\_\_\_\_

Show your work:

**25.** If the opposite of (the opposite of  $n$ ) equals 7, what is  $n$ ?

Answer: \_\_\_\_\_

Show your work: