

Name:

Grade:

Score:

Worksheet #1



## ABSOLUTE VALUE

**Learning goal:** Students will understand the meaning of absolute value, apply it to integers, and use its properties to solve questions.

1. If  $|x| = 9$ , what are the possible values of  $x$ ?

2. If  $|a| = |b|$  and  $a = -12$ , what is  $b$ ?

3. True or False:  $|x| = |-x|$  for any integer  $x$ .

4. If  $|m| = 0$ , then what is the value of  $m$ ?

5.  $|-15| + |7| = ?$

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6. If  $|p| = 20$ , list two possible values of  $p$ .

7. Which is greater:  $|-32|$  or  $|25|$ ?

Name:

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## Worksheet #1(Answers)



# ABSOLUTE VALUE

**Learning goal:** Students will understand the meaning of absolute value, apply it to integers, and use its properties to solve questions.

1. If  $|x| = 9$ , what are the possible values of  $x$ ?

**Solution:**  $x = 9$  or  $x = -9$

2. If  $|a| = |b|$  and  $a = -12$ , what is  $b$ ?

**Solution:**  $b = -12$  or  $b = 12$

3. True or False:  $|x| = |-x|$  for any integer  $x$ .

**Solution:** True

4. If  $|m| = 0$ , then what is the value of  $m$ ?

**Solution:**  $m = 0$

5.  $|-15| + |7| = ?$

**Solution:**  $15 + 7 = 22$

6. If  $|p| = 20$ , list two possible values of  $p$ .

**Solution:**  $p = 20$  or  $p = -20$

7. Which is greater:  $|-32|$  or  $|25|$ ?

**Solution:**  $|-32| = 32$  is greater than  $25$