

# Integers Worksheet

Name:

Class:

Date:

Score:

## Integer Multiplication

1. Calculate the product of the following:

(a)  $4 \times (-2) =$

(b)  $(-7) \times (-5) =$

(c)  $(-10) \times 3 \times (-2) =$

(d)  $(-9) \times 0 \times 8 =$

2. Find the missing number in each equation:

(a)  $(-12) \times \underline{\hspace{2cm}} = -84$

(b)  $\underline{\hspace{2cm}} \times 6 = -36$

(c)  $(-1) \times \underline{\hspace{2cm}} = 99$

(d)  $\underline{\hspace{2cm}} \times (-8) = -80$

3. Sam and Ria both solved the same problem but got different answers:

(a) Sam:  $(-5) \times (-6) = -30$

(b) Ria:  $(-5) \times (-6) = 30$

Who is correct? Explain why.

4. Observe the pattern and fill in the missing product:

(a)  $(-1) \times 1 = -1$

(b)  $(-1) \times 2 = -2$

(c)  $(-1) \times 3 = -3$

(d)  $(-1) \times 4 = \underline{\hspace{2cm}}$

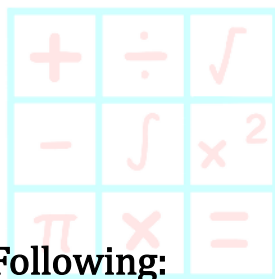
(e)  $(-1) \times 5 = \underline{\hspace{2cm}}$

Write what do you observe?

5. Verify using the distributive property:

(a)  $(-9) \times [5 + (-2)] = [(-9) \times 5] + [(-9) \times (-2)]$

(b)  $(-14) \times [(-3) + 4] = [(-14) \times (-3)] + [(-14) \times 4]$



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6. Find the Following:

(a) For any integer  $x$ , what is  $(-1) \times x$  equal to?

(b) Find the integer that, when multiplied by  $(-1)$ , gives:

i. -55

ii. 83

iii. -1

7. A diver descends 5 meters per second in an ocean. If he starts at sea level (0 meters), what is his depth after:

(a) 3 seconds?

(b) 7 seconds?

(c) 10 seconds?

*(Use negative numbers to show depth below sea level!)*

8. Fill in the missing numbers:

(a)  $(-6) \times 3 \times \underline{\hspace{1cm}} \times (-3) \times 9 = -4374$

(b)  $\underline{\hspace{1cm}} \times 2 \times (-7) \times (-3) \times 6 = 1260$

9. A skier starts at the top of a mountain at 2,000 meters and descends at 250 meters per minute.

(a) How many meters will they be at after 4 minutes?

(b) After how many minutes will they reach sea level (0 meters)?

10. A student is climbing stairs. If each step is 2 meters, and they take  $(-3) \times (-5) \times (2)$  steps, how high will they reach?

11. On Planet X, the temperature is dropping  $4^{\circ}\text{C}$  per hour. If the temperature was  $10^{\circ}\text{C}$  at 12 PM, what will be the temperature at:

(a) 3 PM?

(b) 6 PM?

(c) 12 AM (midnight)?

12. Solve each multiplication:

(a) Choose a negative number and a positive number, then multiply them.

(b) Choose two negative numbers and multiply them.

(c) Choose any number and multiply it by zero.

(d) Choose a positive number and a negative number, then multiply them.

13. Evaluate the Following Expressions and Answer the Questions:

(a) If  $(-2) \times (-2) \times (-2) = x$ , what is  $x$ ?

(b) If  $(-3) \times (-3) \times (-3) \times (-3) = y$ , what is  $y$ ?

- (c) What happens when an odd number of negative numbers are multiplied together?
- (d) What happens when an even number of negative numbers are multiplied together?



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