

## **Integers Worksheet Questions and Answers PDF**

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## Part 1: Foundational Knowledge

What is the definition of an integer?	
Hint: Think about the characteristics of whole numbers.	
<ul> <li>A) A number that includes fractions and decimals</li> <li>B) A whole number that can be positive, negative, or zero ✓</li> <li>C) A number that is always positive</li> <li>D) A number that is always negative</li> </ul>	
An integer is a whole number that can be positive, negative, or zero.  What is the definition of an integer?	
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An integer is a whole number that can be positive, negative, or zero.
Which of the following are properties of integers? (Select all that apply)
Hint: Consider the fundamental properties of addition and multiplication.
<ul> <li>A) Closure ✓</li> <li>B) Reflexie Property ✓</li> <li>C) Commutative Property ✓</li> <li>D) Associative Property ✓</li> </ul>
The properties of integers include closure, reflexivity, commutativity, and associativity.
Which of the following are properties of integers? (Select all that apply)
Hint: Consider the fundamental properties of integers.
<ul> <li>A) Closure ✓</li> <li>B) Reflexivity ✓</li> <li>C) Commutative Property ✓</li> <li>D) Associative Property ✓</li> </ul>
The properties of integers include closure, reflexivity, commutativity, and associativity.  Which of the following are properties of integers? (Select all that apply)
Hint: Consider the fundamental properties of integer operations.
<ul> <li>□ A) Closure ✓</li> <li>□ B) Reflexivity ✓</li> <li>□ C) Commutative Property ✓</li> <li>□ D) Associative Property ✓</li> </ul>
The properties of integers include closure, reflexivity, commutativity, and associativity.
Explain the commutative property of addition in your own words.
Hint: Think about how changing the order of numbers affects the sum.



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On a number line, which direction do you move to find a greater integer?



Hint: Think about the arrangement of numbers on the line.
○ A) Left
<ul><li>□ B) Right ✓</li><li>□ C) Up</li><li>□ D) Down</li></ul>
To find a greater integer, you move to the right on the number line.
On a number line, which direction do you move to find a greater integer?
Hint: Think about the arrangement of numbers on a number line.
○ A) Left
O B) Right ✓
○ C) Up
○ D) Down
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Part 2: Understanding and Interpretation
Which of the following statements are true about the number line? (Select all that apply)
Hint: Consider the properties of the number line.
A) Zero is the neutral point. ✓
B) Numbers to the left are greater.
C) Numbers to the right are greater. ✓
D) It only includes positive numbers.



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✓ B) Numbers to the left are greater. C) Numbers to the right are greater. ✓ D) It only includes positive numbers. True statements about the number line include that zero is the neutral point and numbers to the right are greater. Which of the following statements are true about the number line? (Select all that apply) Hint: Consider the properties of the number line. A) Zero is the neutral point. 

✓ B) Numbers to the left are greater. C) Numbers to the right are greater. ✓ D) It only includes positive numbers. True statements about the number line include that zero is the neutral point and numbers to the right are greater. Describe how you would use the number line to compare the integers -5 and 3. Hint: Think about their positions on the number line.

True statements about the number line include that zero is the neutral point and numbers to the right are

To compare -5 and 3 on the number line, you would see that -5 is to the left of 0 and 3 is to the right, indicating that 3 is greater than -5.



Describe how you would use the number line to compare the integers -5 and 3.	
Hint: Think about the positions of these integers on the number line.	
To compare -5 and 3 on the number line, -5 is to the left of 0 and 3 is to the right, indicating that 3 is greater than -5.	
Describe how you would use the number line to compare the integers -5 and 3.	
Hint: Think about the positions of these integers on the number line.	
To compare -5 and 3 on the number line, -5 is to the left of 0 and 3 is to the right, indicating that 3 is greater than -5.	
What is the absolute value of -7?	
Hint: Consider the distance from zero on the number line.	
○ A) -7	
<ul><li>○ B) 0</li><li>○ C) 7 ✓</li></ul>	
○ D) 14	
The absolute value of -7 is 7, as it represents the distance from zero.	
What is the absolute value of -7?	



Hint: Consider the distance from zero on the number line.  ○ A) -7 ○ B) 0 ○ C) 7 ✓ ○ D) 14
The absolute value of -7 is 7, as it represents the distance from zero.
What is the absolute value of -7?
Hint: Consider the distance from zero on the number line.
<ul> <li>A) -7</li> <li>B) 0</li> <li>C) 7 ✓</li> <li>D) 14</li> </ul>
The absolute value of -7 is 7, as it represents the distance from zero.
Part 3: Applying Knowledge
Apply the distributative property to simplify the expression: 3(4 + 5).
Hint: Think about how to distribute the 3 across the terms in the parentheses.
Using the distributative property, $3(4 + 5)$ simplifies to $3*4 + 3*5 = 12 + 15 = 27$ .

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Using the distributative property, $3(4 + 5)$ simplifies to $3*4 + 3*5 = 12 + 15 = 27$ .	
If you subtract -4 from 7, what is the result?	
Hint: Remember that subtractting a negative is the same as adding.	
○ A) 3	
○ B) 11 ✓	
○ C) -11 ○ D) -3	
Subtractting -4 from 7 gives you 7 + 4 = 11.	
If you subtract -4 from 7, what is the result?	
Hint: Think about how subtract ing a negative number affects the result.	
○ A) 3	
○ B) 11 ✓	
○ C) -11	
○ D) -3	



I	Subtract ing -4 from 7 results in 11, as subtract ing a negative is equivalent to adding.
lf	you subtract -4 from 7, what is the result?
Hi	nt: Remember that subtract ing a negative is the same as adding.
0	A) 3 B) 11 ✓ C) -11 D) -3
I	Subtract ing -4 from 7 results in 11, as it is equivalent to 7 + 4.
W	hich of the following operations will result in a positive integer? (Select all that apply)
Hi	nt: Consider the effects of each operation on the integers involved.
	A) -2 * -3 ✓ B) 5 + (-5) C) 6 - (-2) ✓ D) -7 + 7
	The operations that result in a positive integer include multiplying two negative integers and adding positive integer to a negative integer.
W	hich of the following operations will result in a positive integer? (Select all that apply)
Hi	nt: Consider the effects of each operation on the integers involved.
	A) -2 * -3 ✓
	B) 5 + (-5)
	C) 6 - (-2) ✓   D) -7 + 7
	The operations that result in a positive integer include -2 * -3 and 6 - (-2).
W	hich of the following operations will result in a positive integer? (Select all that apply)
Hi	nt: Consider the effects of each operation on the integers involved.
	A) -2 * -3 ✓

☐ B) 5 + (-5)



<ul><li>□ C) 6 - (-2) ✓</li><li>□ D) -7 + 7</li></ul>
The operations that result in a positive integer include multiplying two negative integers and adding a positive integer to a negative integer.
Part 4: Analyzing Relationships
Analyze the expression 2(-3 + 4) and explain each step to find the result.
Hint: Break down the expression into manageable parts.
To analyze 2(-3 + 4), first calculate -3 + 4 = 1, then multiply by 2 to get 2 * 1 = 2.
Analyze the expression 2(-3 + 4) and explain each step to find the result.
Hint: Break down the expression step by step.
To analyze 2(-3 + 4), first calculate -3 + 4 = 1, then multiply by 2 to get 2.
Analyze the expression 2(-3 + 4) and explain each step to find the result.
Hint: Break down the expression step by step.



	/
I	To analyze $2(-3 + 4)$ , first calculate $-3 + 4 = 1$ , then multiply by 2 to get 2.
W	hich property is illustrated by the equation $6 + (4 + 2) = (6 + 4) + 2$ ?
Hii	nt: Consider the grouping of numbers in addition.
0000	A) Commutative Property  B) Associative Property  C) Distributative Property  D) Closure Property
	The equation illustrates the Associative Property, which states that the way numbers are grouped does not change the sum.
W	hich property is illustrated by the equation $6 + (4 + 2) = (6 + 4) + 2$ ?
Hii	nt: Consider the properties of addition.
	A) Commutative Property
0	B) Associative Property ✓ C) Distributative Property
$\circ$	D) Closure Property
I	The equation illustrates the Associative Property of addition.
W	hich property is illustrated by the equation $6 + (4 + 2) = (6 + 4) + 2$ ?
Hii	nt: Consider the properties of addition.
$\bigcirc$	A) Commutative Property
	B) Associative Property ✓ C) Distributative Property
	D) Closure Property



The equation illustrates the Associative Property of addition.
Part 5: Synthesis and Reflection
Evaluate the expression -8 + 3 $^{*}$ (2 - 5) and explain your reasoning.
Hint: Break down the expression step by step.
To evaluate $-8 + 3 * (2 - 5)$ , first calculate $(2 - 5) = -3$ , then multiply by 3 to get $-9$ , and finally add $-8$ to get $-17$ .
Evaluate the expression -8 + 3 * (2 - 5) and explain your reasoning.
Hint: Consider the order of operations when evaluating.
To evaluate $-8 + 3 * (2 - 5)$ , first calculate $(2 - 5) = -3$ , then multiply by 3 to get $-9$ , and finally add $-8$ to get $-17$ .
Evaluate the expression -8 + 3 * (2 - 5) and explain your reasoning.
Hint: Follow the order of operations carefully.



Evaluating -8 + 3 * (2 - 5) gives -8 + 3 * -3 = -8 - 9 = -17.
Which of the following scenarios best illustrates the use of integers in real life? (Select all that apply)
Hint: Think about situations where positive and negative values are used.
<ul> <li>A) Calculating temperature changes ✓</li> <li>B) Measuring the height of a building</li> <li>C) Tracking bank account balances ✓</li> <li>D) Determining the speed of a car ✓</li> </ul>
Scenarios that illustrate the use of integers include calculating temperature changes, tracking bank account balances, and determining the speed of a car.
Which of the following scenarios best illustrates the use of integers in real life? (Select all that apply)
Hint: Consider practical applications of integers.
<ul> <li>A) Calculating temperature changes ✓</li> <li>B) Measuring the height of a building</li> <li>C) Tracking bank account balances ✓</li> <li>D) Determining the speed of a car</li> </ul>
Scenarios that illustrate the use of integers include calculating temperature changes and tracking bank account balances.
Which of the following scenarios best illustrates the use of integers in real life? (Select all that apply)
Hint: Think about situations where positive and negative values are used.
<ul> <li>A) Calculating temperature changes ✓</li> <li>B) Measuring the height of a building</li> <li>C) Tracking bank account balances ✓</li> </ul>



D) Determining the speed of a car	
Scenarios that illustrate the use of integers include calculating temperature changes and tracking baccount balances.	ank
Create a real-world problem that involves adding and subtractting integers, and solve it.	
Hint: Think about a scenario that includes both positive and negative values.	
	/.
An example problem could be: 'You have \$20, and you spend \$15, then earn \$10. How much you have now?' The solution is \$20 - \$15 + \$10 = \$15.  Create a real-world problem that involves adding and subtract ing integers, and solve it.	do
Hint: Think about a scenario that requires both addition and subtraction.	
	10
An example problem could be: If you have \$20 and spend \$15, how much do you have left? solution is \$5.	The
Create a real-world problem that involves adding and subtract ing integers, and solve it.	

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Hint: Think about a scenario that requires both addition and subtraction.



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An example problem could involve tracking expenses and income, such as spending \$20 and earning \$50, resulting in a net gain of \$30.