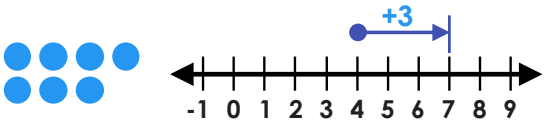
The **integer addition rules** are determined by the **signs of the integers being added**.

Same Signs
- Find the sum.
- Keep the sum.

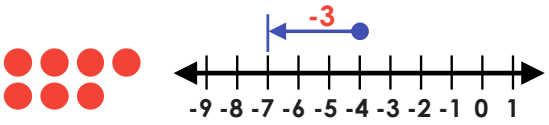
Positive + Positive = Positive

4 + 3 = 7



Negative + Negative = Negative

-4 + -3 = -7



CFU

5 + 1

Will the answer be positive or negative? Explain.

A **positive**
B **negative**

-5 + (-1)

Will the answer be positive or negative? Explain.

A **positive**
B **negative**

We will add integers. | **Skill Development/Guided Practice 1**

1 Read the addition problem.
2 Identify the integer signs. (box)
3 Solve the addition using the correct sign.

1. **25 + 15 =**	☐ **Pos + Pos = Pos**	☐ **Neg + Neg = Neg**
2. **-6 + (-12) =**	☐ **Pos + Pos = Pos**	☐ **Neg + Neg = Neg**
3. **-4 + (-5) =**	☐ **Pos + Pos = Pos**	☐ **Neg + Neg = Neg**
4. **3 + 5 =**	☐ **Pos + Pos = Pos**	☐ **Neg + Neg = Neg**
5. **(-7) + (-4) =**	☐ **Pos + Pos = Pos**	☐ **Neg + Neg = Neg**
6. **9 + 12 =**	◯ **Pos + Pos = Pos**	◯ **Neg + Neg = Neg**

1 Read the problem and connect it to the number sentence. (underline)
2 Identify the integer signs. (box)
3 Solve the addition with the correct sign.
4 Interpret the answer.

7. Jackson put a deposit of $55 in the bank. Then he made another deposit of $44 in the bank the next day. How much did he deposit in all?

55 + 44 =

☐ **Pos + Pos = Pos**

☐ **Neg + Neg = Neg**

8. Marcy had a penalty of 28 points in a video game. Then she got another penalty of 12 points. How many total points was she penalized?

(-28) + (-12) =

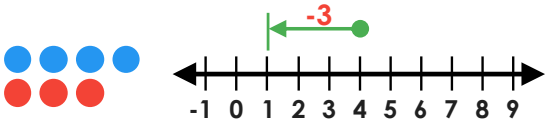
☐ **Pos + Pos = Pos**

☐ **Neg + Neg = Neg**

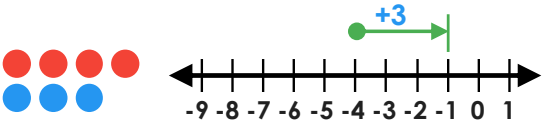
The **integer addition rules** are determined by the **signs** of the integers being added.

Different Signs
- Ignore the signs.
- Find the difference.
- Keep the sign of the greater number.

4 + -3 = 4 – 3 = 1



-4 + 3 = 4 – 3 = -1



CFU

9 + (-7)

Will the answer be positive or negative? Explain.

A **positive**

B **negative**

-8 + 2

Will the answer be positive or negative? Explain.

A **positive**

B **negative**

1 Read the addition problem with different signs.
2 Ignore the signs and find the difference.
3 Solve the problem and keep the sign of the greater number. (box)

1. **11 + (-5) =**
2. **-14 + 3 =**
3. **25 + (-10) =**
4. **-12 + 19 =**
5. **-10 + 7 =**
6. **6 + (-12) =**

1 Read the problem and connect it to the number sentence. (underline)
2 Ignore the signs and find the difference.
3 Solve the problem and keep the sign of the greater number.
4 Interpret the answer.

7. Tom had $37 in the bank. Then he made a withdrawal of $50 from the bank. How much money does Tom owe to the bank now?

37 + (-50) =

8. Marilyn had lost 17 socks. After washing her laundry, she discovered that she had found 6 socks. How many socks is Marilyn still missing?

-17 + 6 =

Skill Closure

1 Read the addition problem.
2 Identify which sign rule to use.
3 Solve the problem using the correct sign rule.

1. **12 + (-9) =**
2. **-21 + (-7) =**
3. **18 + 45 =**
4. **-26 + 17 =**
5. **-16 + 33 =**
6. **-40 + (-8) =**

Concept Closure

Read the problem and answer the following question.

James is adding -7 and 5. He thinks that he will have a negative answer.

Do you agree with James? Explain.

Summary Closure

What did you learn today about adding integers?

Word Bank

addition integer rules
same signs
different signs

1 Read the addition problem.
2 Identify which sign rule to use.
3 Solve the problem using the correct sign rule.

1. 7 + 4 =	2. 2 + 18 =
3. -8 + (-15) =	4. -14 + (-35) =
5. 18 + (-11) =	6. 29 + (-10) =
7. -35 + 2 =	8. -47 + 8 =

Add integers.

1. 16 + 9 =	2. 1 + 29 =
3. -33 + (-3) =	4. -9 + (-43) =
5. 4 + (-18) =	6. 76 + (-1) =
7. -57 + 44 =	8. -22 + 66 =

Read the problem and answer the following question.

Sarah is adding -5 and -7. She thinks that she will have a positive answer.

Do you agree with Sarah? Explain.

Write at least four different ways to get the given sum. Use positive and negative integers when possible.

1. ( ) + ( ) = 5

( ) + ( ) = 5

( ) + ( ) = 5

( ) + ( ) = 5

2. ( ) + ( ) = -2

( ) + ( ) = -2

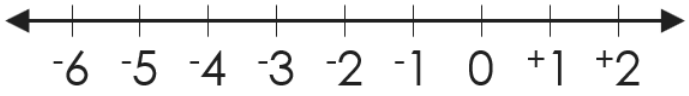
( ) + ( ) = -2

( ) + ( ) = -2

Read the problem and answer the following question.

Elias is adding 2 and (-5). He knows the answer will be negative.

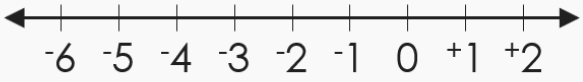
Use a number line to prove that he is correct. Explain the answer.



Add 1 + (-6). Use three different ways to calculate the answer.

Counters

Number Line



Integer Rules

Calculate the integer addition.

1. Find a positive and a negative integer that will give a sum of 8.
2. Find two positive integers that will give a sum of 12.
3. Find two negative integers that will give a sum of -21.
4. Find a positive and a negative integer that will give a sum of 17.
5. Find a positive and a negative integer that will give a sum of 8.
6. Find two positive integers that will give a sum of 12.
7. Find two negative integers that will give a sum of -24.
8. Find a positive and a negative integer that will give a sum of -19.