Quick Review

At Home
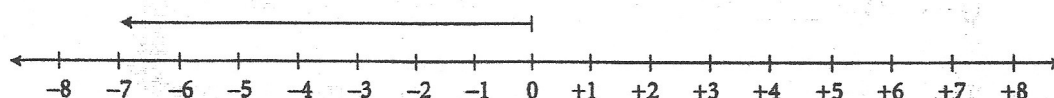At School

➤ You can add integers using a number line.

To add a positive integer, move right.
To add a negative integer, move left.

To add: $(-7) + (+13)$
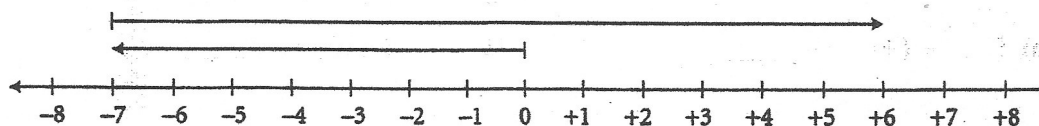Start at -7.
This is 7 units to the left of 0.

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←——————————————————————|
——+——+——+——+——+——+——+——+——+——+——+——+——+——+——+——+——+——
 -8  -7  -6  -5  -4  -3  -2  -1   0  +1  +2  +3  +4  +5  +6  +7  +8
```

HINT

Always start the
second arrow where
the first arrow ends.

Then, add $+13$.
Move 13 units to the right.

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      |——————————————————————————————————————→
      ←——————————————————————|
——+——+——+——+——+——+——+——+——+——+——+——+——+——+——+——+——+——
 -8  -7  -6  -5  -4  -3  -2  -1   0  +1  +2  +3  +4  +5  +6  +7  +8
```

$(-7) + (+13) = +6$

Practice

1. Use the number line to add $(+3) + (-7)$.

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←——+——+——+——+——+——+——+——+——+——+——+——→
  -5  -4  -3  -2  -1   0  +1  +2  +3  +4  +5
```
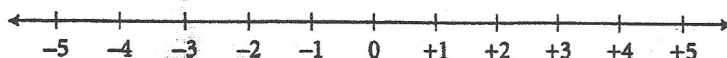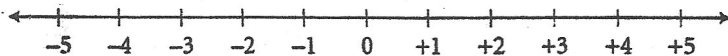
Start at 0. Move 3 units right.

Move _____ units left.
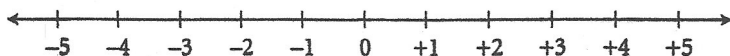
So, $(+3) + (-7) =$ _____

KEY TO SUCCESS

If you know different methods,
you can solve a problem in
one way, and check the answer
in another way.
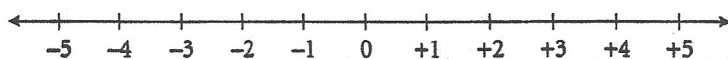
2. Use the number line to add.

   a) $(+4) + (-5) =$ _____

```
←—+——+——+——+——+——+——+——+——+——+——+——→
  -5   -4   -3   -2   -1   0   +1   +2   +3   +4   +5
```
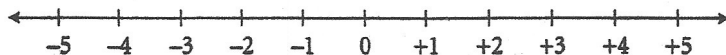
   b) $(-2) + (-2) =$ _____

```
←—+——+——+——+——+——+——+——+——+——+——+——→
  -5   -4   -3   -2   -1   0   +1   +2   +3   +4   +5
```

   c) $(-4) + (+8) =$ _____

```
←—+——+——+——+——+——+——+——+——+——+——+——→
  -5   -4   -3   -2   -1   0   +1   +2   +3   +4   +5
```

HINT

To add positive integers, move right. To add negative integers, move left.

   d) $(-1) + (+2) =$ _____

```
←—+——+——+——+——+——+——+——+——+——+——+——→
  -5   -4   -3   -2   -1   0   +1   +2   +3   +4   +5
```

3. Add.

   a) $(+4) + (+7) =$ _____   **b)** $(-2) + 0 =$ _____

   c) $(+9) + (-5) =$ _____   **d)** $(-10) + (+3) =$ _____

4. Match each addition statement with its sum. The first one is done for you.

    $(-6) + (-5)$ +11

    $(-6) + (+5)$ -11

    $(+6) + (-5)$ +1

    $(+6) + (+5)$ -1

5. Add, using a method of your choice.
Use a different method to check your work.

    a) $(-1) + (+5) = $ _____

    b) $(-8) + (+2) = $ _____

    c) $(-8) + (-6) = $ _____

    d) $(+2) + (-5) = $ _____

6. Kim earned $24 baby-sitting.
He spent $7 buying lunch at school.

    How much does Kim have left? _____

7. Create a problem that can be solved using integer addition.
Show the solution.
Here are some possible ideas.
- temperature change
- elevation change
- bank balance

_____

_____

_____

_____

8. Play this game with 2 to 4 people.
You will need a deck of cards with face cards removed, paper, and pencil.

    Red cards are negative. Black cards are positive.

    Deal 2 cards to each player.
- ➤ Players find the sum of their 2 numbers.
- ➤ If a player has a sum of 0, he or she is "out."
- ➤ Each remaining player takes 1 card from the deck.
  Add this number to the previous sum.
- ➤ Any player with a total of 0 is "out."
- ➤ Play continues until 1 player remains.
- ➤ The last player in the game wins.