



A horizontal orange banner with rounded ends, designed to look like a scroll. The banner has a darker orange vertical strip on the left side, suggesting a binding or a rolled-up edge. The text "Session 10" is centered on the banner in a white, casual font.

# Session 10



compare

# Putting Integers in Order

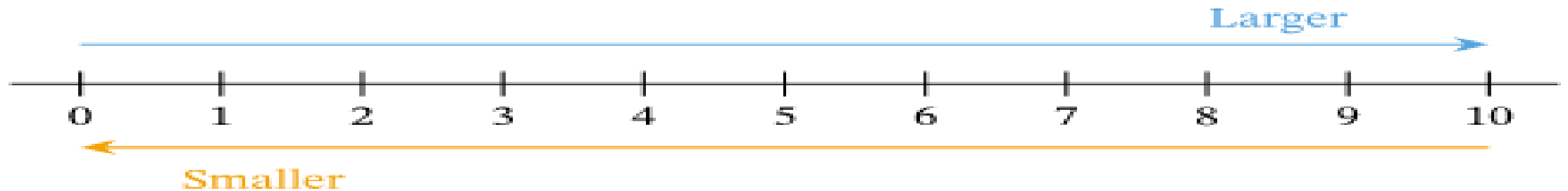
Order  $-4$ ,  $0$ ,  $+5$ , and  $-6$  from least to greatest

Use a number line!



Start with the integers on the LEFT since they're the smallest integers.

from left to right,  
the smallest ....the greatest



# The Most Common Symbols Used in Mathematics



addition



subtraction



percentage



summation



$$a = b \times c(x)$$



pi



division



equal



square root



multiplication



absolute value



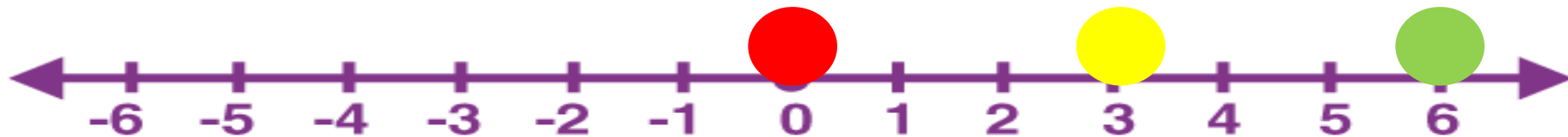
# symbol

# Let's compare positive integers.

$$5 > 3 > 0$$

Which integer the smallest?  
Which integer is the greatest?

from left to right,  
the smallest ....the greatest

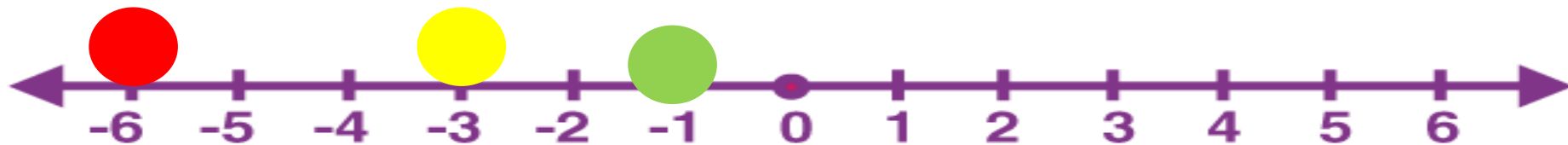


# Let's compare negative integers.

$$-6 < -3 < -1$$

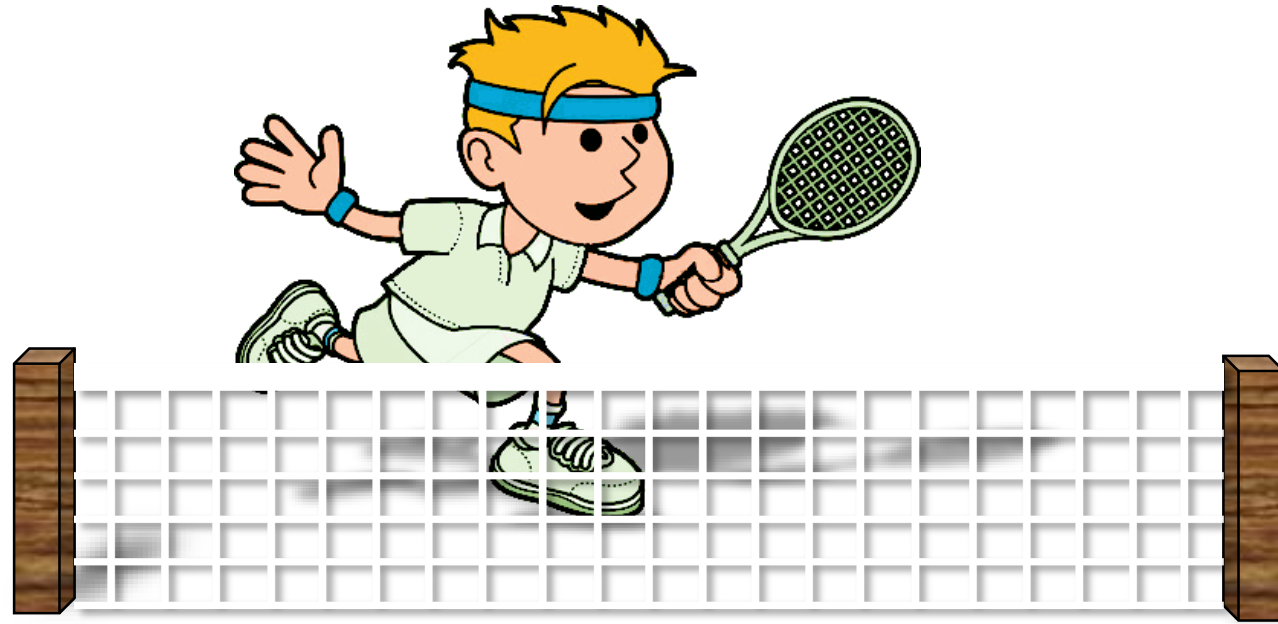
Which integer the smallest?  
Which integer is the greatest?

from left to right,  
the smallest ....the greatest





The greatest integer is 5.

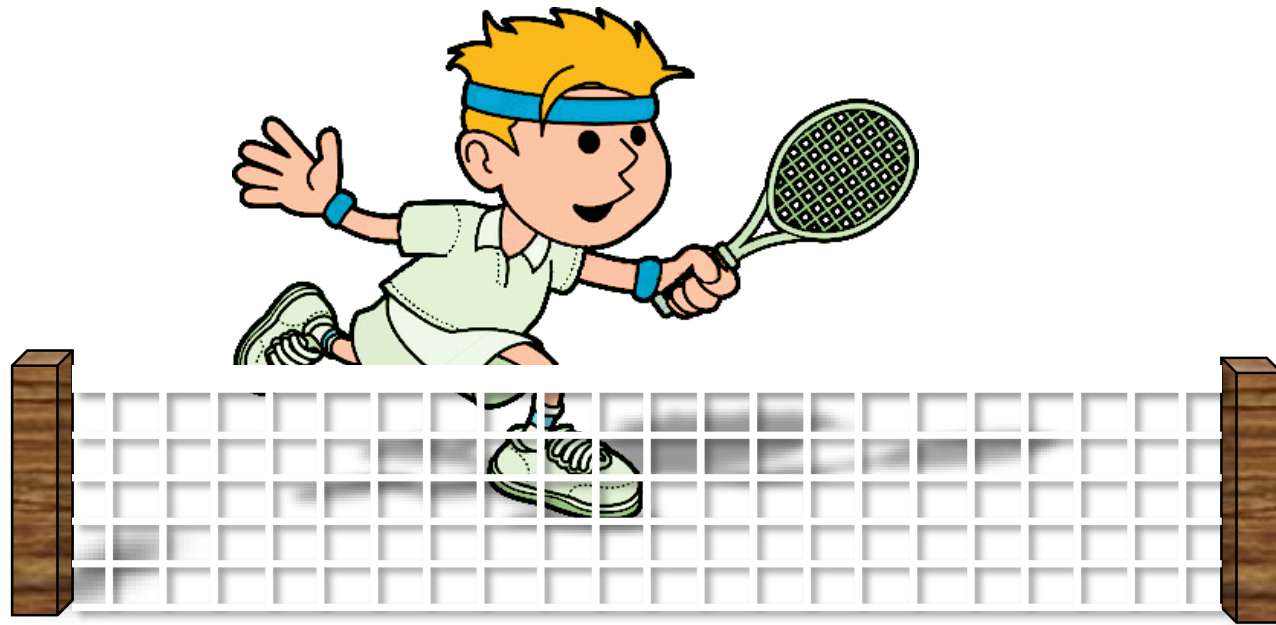


-5

0

5

The least integer is           -25          .

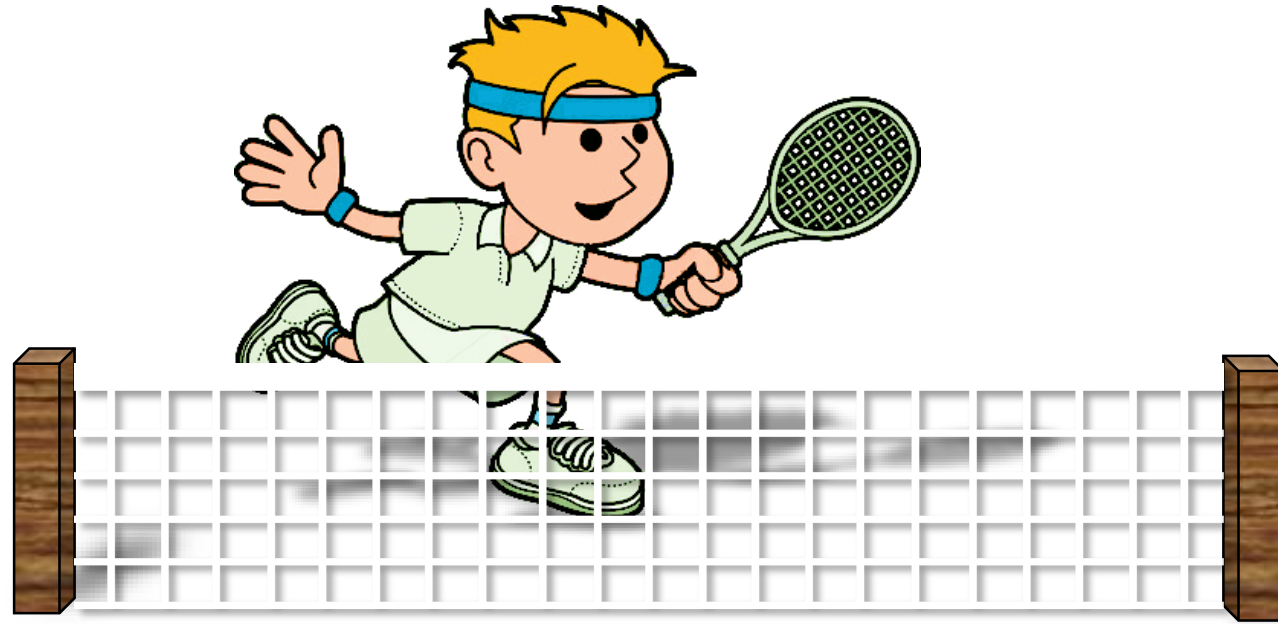


-18

-25

3

The greatest integer is 2.



-100

2

-12

# Ordering Integers and Numbers

20

0

11

-2

# Ordering Integers and Numbers

20

11

-2

0

# Ordering Integers and Numbers

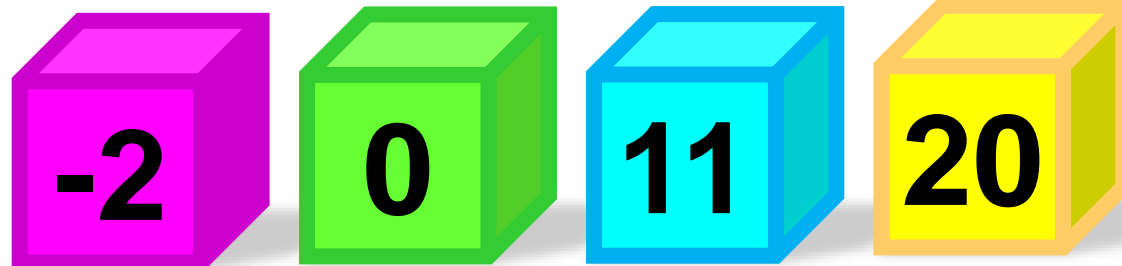
20

-2

0

11

# Ordering Integers and Numbers





# Ordering Integers and Numbers

5

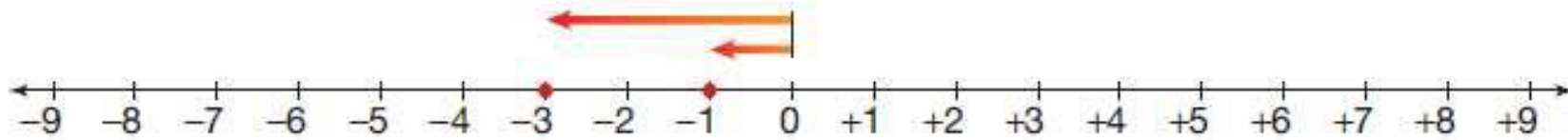
8

-14

-10

-3



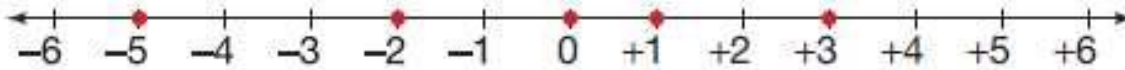


-3 is to the left of -1 on a number line.

-3 is less than -1, so we write:  $-3 < -1$

-1 is greater than -3, so we write:  $-1 > -3$

- To order the integers 0, +1, -2, +3, and -5, draw a number line from -6 to +6. Mark each integer on the number line.



Fill in each  $\bigcirc$  with  $<$ ,  $>$ , or  $=$  to make a true statement.

1.  $-5 \bigcirc -55$

2.  $4 \bigcirc -66$

3.  $-777 \bigcirc -77$

4.  $-75 \bigcirc -75$

5.  $-898 \bigcirc -99$

6.  $0 \bigcirc 44$

7.  $56 \bigcirc -1$

8.  $-82 \bigcirc -9$

9.  $-6 \bigcirc -7$

10.  $90 \bigcirc 101$

11.  $4 \bigcirc -2,000$

12.  $-3 \bigcirc 0$

13.  $8 \bigcirc 6$

14.  $-5 \bigcirc -7$

15.  $-2 \bigcirc 0$