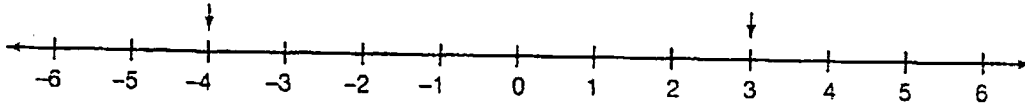




SKILL 3: Comparing and Ordering Integers

You can use the number line to help compare two integers.
Integers become greater as you move to the right.



On the number line above, 3 is to the right of -4 , so 3 is greater than -4 . The symbols $>$, $<$, and $=$ are used to compare integers. Since 3 is greater than -4 , you can write $3 > -4$, or $-4 < 3$.

To order a set of integers from least to greatest, locate them on the number line. Then list them in order from left to right.

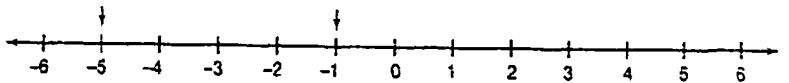
Example 1

Use $>$, $<$, or $=$ to compare the numbers.

a. $-1 \bigcirc -5$

-1 is to the right of -5 .

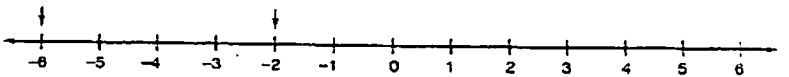
So $-1 > -5$.



b. $-6 \bigcirc -2$

-6 is to the left of -2 .

So $-6 < -2$.

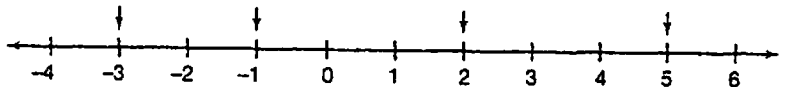


Example 2

Order the integers 2, -3 , 5, and -1 from least to greatest.

Locate the integers on the number line.

List the integers from left to right. From least to greatest the integers are -3 , -1 , 2, and 5.



Guided Practice

Use $>$, $<$, or $=$ to compare the numbers. Refer to the number line.

1. $-6 \bigcirc -1$

2. $5 \bigcirc -5$

3. $|-4| \bigcirc 2$

4. List the integers -3 , -6 , and 4 from least to greatest. _____

SKILL 3: PracticeUse $>$, $<$, or $=$ to compare the numbers.

- | | | |
|------------------------|-------------------------|--------------------------|
| 1. $-6 \bigcirc -5$ | 2. $1 \bigcirc -4$ | 3. $12 \bigcirc -20$ |
| 4. $9 \bigcirc 15$ | 5. $-8 \bigcirc -12$ | 6. $-30 \bigcirc 0$ |
| 7. $-20 \bigcirc 13$ | 8. $-16 \bigcirc 16$ | 9. $18 \bigcirc -18 $ |
| 10. $40 \bigcirc -100$ | 11. $-50 \bigcirc 45$ | 12. $6 \bigcirc -36$ |
| 13. $0 \bigcirc -32$ | 14. $ 7 \bigcirc 7$ | 15. $ -3 \bigcirc -8 $ |
| 16. $ 17 \bigcirc 17$ | 17. $ -17 \bigcirc 17$ | 18. $-74 \bigcirc 60$ |

Order each set of integers from least to greatest.

- | | |
|-------------------------------|---------------------------------|
| 19. $-9, 4, 0$
_____ | 20. $-7, -8, -4$
_____ |
| 21. $-3, 2, 6, -10$
_____ | 22. $10, -20, 30, -30$
_____ |
| 23. $-5, 17, -19, 6$
_____ | 24. $3, -3, 10, -10$
_____ |

Solve.

25. The low temperature on Monday was 5°F , the low temperature on Tuesday was -5°F , and the low temperature on Wednesday was -1°F . On which day did the lowest temperature occur? _____



26. Which list shows the integers -3 , -4 , and 2 in order from least to greatest?

- | | |
|---------------|---------------|
| A $-4, -3, 2$ | C $2, -3, -4$ |
| B $-3, -4, 2$ | D $2, -4, -3$ |

Skill 3

27. Find $|28|$.

- | | |
|---------|--------|
| F -28 | H 28 |
| G 0 | J 56 |

Skill 2