



Footloose

Footloose!

Absolute Value

1	2	3	4	5
6	7	8	9	10
11	12	13	14	15
16	17	18	19	20
21	22	23	24	25

AV 1

What is the absolute value?

$|-5|$

AV 4

Susie read the thermometer outside her window and found that it was -7° F. What is the absolute value of this temperature?



Footloose!



Common Core State Standards:

6.NS.7c Understand ordering and absolute value of rational numbers.

c) Understand the absolute value of a rational number as its distance from 0 on the number line; interpret absolute value as magnitude for a positive or negative quantity in a real-world situation. For example, for an account balance of -30 dollars, write $|-30| = 30$ to describe the size of the debt in dollars.

6.NS.7d Understand ordering and absolute value of rational numbers.

d) Distinguish comparisons of absolute value from statements about order. For example, recognize that an account balance less than -30 dollars represents a debt greater than 30 dollars.

Directions:

1. Copy enough Footloose grids for each student in the class, and distribute one grid to each student.
2. Give each student one of the 30 cards (it is best if these cards are laminated). If there are extra cards, they can be placed around the room for students to pick up as needed. If there are more than 30 students, students may share cards as they work.
3. Students should answer the question on their first card by writing the answer on their grid (not on the card), in the box with the number that corresponds to the number in the right hand corner of the question card.
4. After recording the answer, students should place the card in a "central location," like a chalk ledge or a table, and then take a new card to complete. (An alternate way to play - display the cards around the room and students may go to the cards in the order they choose.)
5. Students should continue to answer the questions one card at a time, returning each card as they finish, until they have filled the entire grid.
6. The "winner" of the game is the student who answers the most questions correctly!

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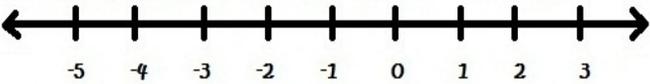
Footloose

1	2	3	4	5
6	7	8	9	10
11	12	13	14	15
16	17	18	19	20
21	22	23	24	25
26	27	28	29	30

Absolute Value Footloose

AV 1

What is the absolute value?

$$|-5|$$


A horizontal number line with arrows at both ends. It is marked with integers from -5 to 3. The numbers are: -5, -4, -3, -2, -1, 0, 1, 2, 3.

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AV 2

What numbers have an absolute value of 9?

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AV 3

Compare, using $<$, $>$, or $=$

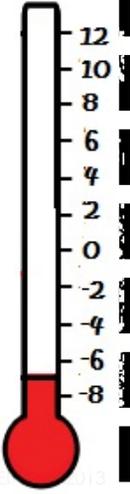
$$|-10| \bigcirc |-2|$$

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AV 4

Susie read the thermometer outside her window and found that it was -7° F.

What is the absolute value of this temperature?



A vertical thermometer with a red bulb at the bottom. The scale is marked from -8 to 12 in increments of 2. The red liquid level is at the -7 mark.

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AV

5

What numbers
have an absolute
value of 17?

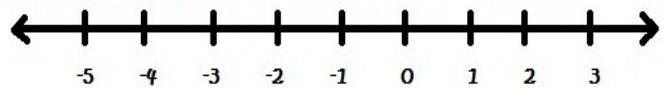
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AV

6

What is the absolute
value?

$$|-4|$$



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AV

7

Compare, using
<, >, or =

$$|-75| \bigcirc |75|$$

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AV

8

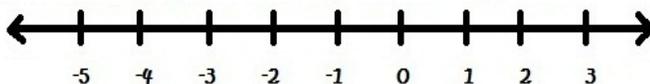
Which has the
greater absolute
value, -33 or 37?

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AV 9

What is the absolute value?

$|2|$



A horizontal number line with arrows at both ends. It is marked with integers from -5 to 3. The numbers are: -5, -4, -3, -2, -1, 0, 1, 2, 3.

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AV 10

What is the absolute value?

$|9|$

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AV 11

Compare, using
<, >, or =

$|15| \bigcirc |12|$

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AV 12

What numbers
have an absolute
value of 23?

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AV

13

Order the values
from least to
greatest:

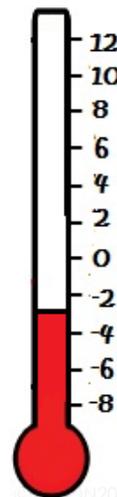
$$|-1|, |-2|, -3, -4$$

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AV

14

At 6:00 a.m., the
temperature was -3° F.
What is the absolute
value of this
temperature?



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AV

15

Compare, using
<, >, or =

$$|-52| \bigcirc |-55|$$

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AV

16

Order the values
from least to
greatest:

$$|-4|, |3|, 0, -1$$

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AV

17

At 7:00 a.m., the temperature was -5°F , and at 10 a.m., it was 6°F . Which temperature is farther from zero?

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AV

18

The depth of the Mariana Trench (the deepest point in the ocean) can be written as $|-36,201|$ feet. How many feet below sea level is this?

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AV

19

Compare, using

$<$, $>$, or $=$

$|100| \bigcirc |-101|$

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AV

20

What numbers have an absolute value of 63?

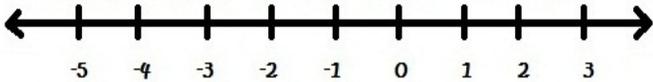
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AV

21

What is the absolute value?

$$\left| -4\frac{1}{2} \right|$$



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AV

22

George's bank account balance is -7 dollars, and Mark's balance is -9 dollars. Who has the greater debt?

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AV

23

Order the values from least to greatest:

$$6, -4, |5|, |-8|$$

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AV

24

What numbers have an absolute value of 81?

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AV

25

The height of Mt. Everest (highest point on Earth) can be written as $|29,035|$ feet.

How many feet above sea level is this?

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AV

26

The depth of the Mariana Trench is $|-36,201|$ feet, and the height of Mt. Everest is

$|29,035|$ feet. Which is the greater distance from sea level?

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AV

27

Compare, using

$<$, $>$, or $=$

$|28| \bigcirc |-29|$

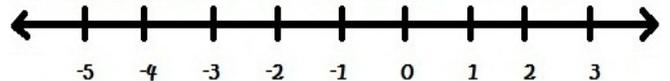
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AV

28

What is the absolute value?

$|2\frac{1}{2}|$



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AV

29

Which has the greater absolute value, -22 or 22?

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AV

30

Order the values from least to greatest:

$|8|$, $|-10|$, 7, -9

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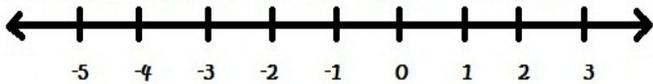
Absolute Value Footloose

AV

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What is the absolute value?

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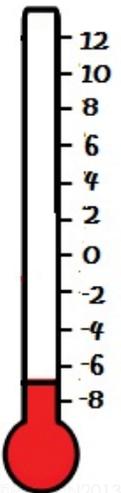
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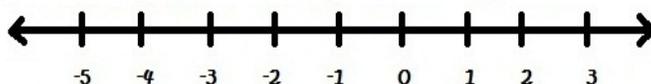
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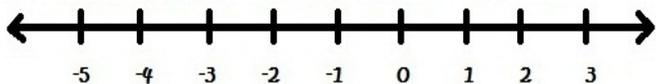
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9

What is the absolute value?

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Compare, using

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AV

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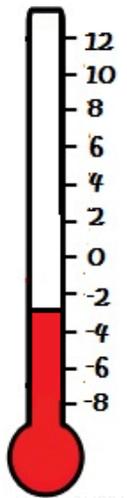
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Compare, using $<$, $>$, or $=$

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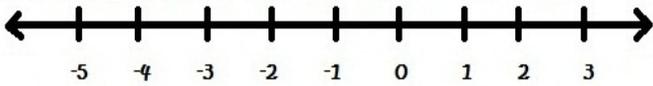
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AV

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What is the absolute value?

$$\left| -4\frac{1}{2} \right|$$



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AV

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AV

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Order the values from least to greatest:
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Compare, using $<$, $>$, or $=$

$$|28| \bigcirc |-29|$$

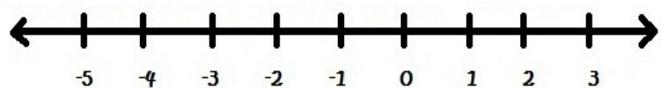
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28

What is the absolute value?

$$\left|2\frac{1}{2}\right|$$



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AV

29

Which has the greater absolute value, -22 or 22 ?

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AV

30

Order the values from least to greatest:

$|8|$, $|-10|$, 7 , -9

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Footloose

Answer Key – Absolute Value 1

1 The absolute value is 5.	2 -9 and 9 have the absolute value of 9.	3 $ -10 > -2 $	4 The absolute value of -7° is 7.	5 -17 and 17 have the absolute value of 17.
6 The absolute value is 4.	7 $ -75 = 75 $	8 37 has the greater absolute value.	9 The absolute value is 2.	10 The absolute value is 9.
11 $ 15 > -12 $	12 -23 and 23 have the absolute value of 23.	13 Values from least to greatest: -4, -3, $ -1 $, $ -2 $	14 The absolute value of -3° is 3.	15 $ -52 < -55 $
16 Values from least to greatest: -1, 0, $ 3 $, $ -4 $	17 6°F is farther from zero than -5°F .	18 The deepest point of the Mariana Trench is 36,201 feet below sea level.	19 $ 100 < -101 $	20 -63 and 63 have the absolute value of 63.
21 The absolute value is $4\frac{1}{2}$.	22 Mark has the greater debt (-9 dollars).	23 Values from least to greatest: -4, $ 5 $, 6, $ -8 $	24 -81 and 81 have the absolute value of 81.	25 Mt. Everest is 29,035 feet above sea level.
26 The Mariana Trench has the greater distance from sea level.	27 $ 28 < -29 $	28 The absolute value is $2\frac{1}{2}$.	29 The absolute values are equal.	30 Values from least to greatest: -9, 7, $ 8 $, $ -10 $

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