

Introduction to Lesson 3

Lesson 3 reinforces content in the previous lessons and introduces the parentheses, negative sign, and absolute value (vertical bars). The Project INSPIRE team recommends that activities be completed in the order provided.

Activity 1: Symbol List

Directions: Review the Symbol List with the student before beginning the activities. If the student is not familiar with any symbol spend time introducing it and how it is used in math materials.

- ⠠ opening parenthesis
- ⠡ closing parenthesis
- ⠢ negative sign
- ⠠ ⠡ opening and closing absolute value

Activity 2: Maze Answers

Directions: Have the student read each expression as they advance through the maze.

Start

3.5	three point five	⠠⠠⠠⠠
0.7	zero point seven	⠠⠠⠠⠠
\$2.37	two dollars and thirty-seven cents	⠠⠠⠠⠠⠠⠠
67%	sixty-seven percent	⠠⠠⠠⠠⠠
\$36.49	thirty-six dollars and forty-nine cents	⠠⠠⠠⠠⠠⠠⠠
34.6%	thirty-four point six percent	⠠⠠⠠⠠⠠⠠⠠

\approx approximately equal to ⠠⠨⠠⠨⠠⠨⠠⠨⠠⠨
 $.333$ point three three three ⠠⠨⠠⠨⠠⠨⠠⠨⠠⠨
 9.8% nine point eight percent ⠠⠨⠠⠨⠠⠨⠠⠨⠠⠨⠠⠨

Finish

Activity 3: What is Wrong?

Directions: Have the student read the expressions in each of the four quadrants. What is wrong with each of the first three expressions? It is a common mistake. The last choice is always correct. There is also a challenge puzzle that has two mistakes.

Negative five plus open parenthesis eight minus six close parenthesis

⠠⠨⠠⠨⠠⠨⠠⠨⠠⠨⠠⠨	⠠⠨⠠⠨⠠⠨⠠⠨⠠⠨⠠⠨
⠠⠨⠠⠨⠠⠨⠠⠨⠠⠨⠠⠨	⠠⠨⠠⠨⠠⠨⠠⠨⠠⠨⠠⠨

Challenge (Find two mistakes.)

Negative eight plus the absolute value of negative three equals negative five

⠠⠨⠠⠨⠠⠨⠠⠨⠠⠨⠠⠨⠠⠨ ⠠⠨⠠⠨ ⠠⠨⠠⠨

Activity 4: Which One Doesn't Belong?

Directions: Have the student read the expression in each of the four quadrants and share their reasoning as to "Which One Doesn't Belong and Why?" The great thing about this activity is that there are no wrong answers. As long as the student's reasoning is accurate, they are correct.

Note: Be sure to watch the video Sara Larkin created that explains how to facilitate the "Which One Doesn't Belong?" activity.

1.

-25	-4
-7	9

2.

$-3 - (-7)$	$4 + (-12)$
$4 - 17$	$-5 + (-8)$

Activity 5: What is the Question?

Directions: Now is the student's chance to be creative! The student will be given the answer and needs to come up with a question which gives them that answer. There is an example of a question to get them started, but they must come up with their own. Challenge the student to use as many different symbols as they can!

Answer: -7

Question example: $2 + |-3| - 12 = ?$

Your question that gives the same answer: