



1. Following the correct order of operations, simplify the following expressions.

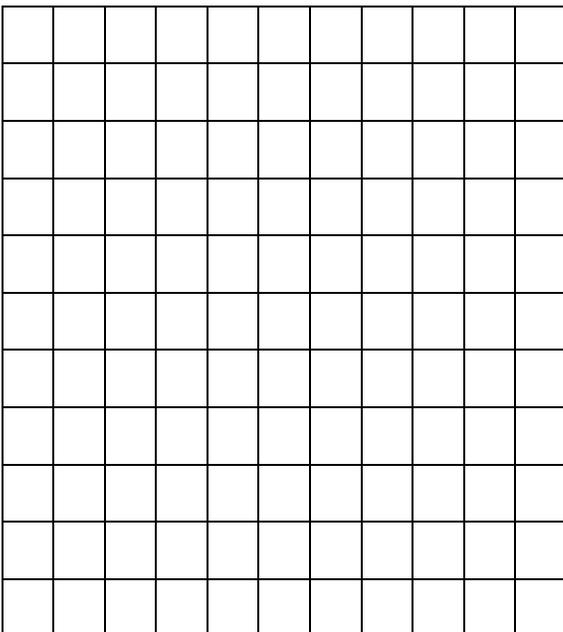
a. $5^2 \cdot (-3) - 4 \cdot 6 + 7$

b. $-3 \cdot (6 + 4 \cdot 2)$

c. $9 + 8 \div (-4) - 12$

2. Alan was paying a dinner check, but he was not sure how much he should tip for his bill of \$27.38. If a 15% tip is standard, about how much should Alan leave for the server?

3. Label axes and scale on the grid below, then graph the following points: A(-2, 0), B(0, 4), C(4, 1), D(2, -3). Connect the points in order, with point D connected to point A. What shape have you created?



4. For each of the following probabilities, write “dependent” if the outcome of the second event depends on the outcome of the first event and “independent” if it does not.

a. P(spinning a 3 on a spinner after having just spun a 2)

b. P(drawing a red 6 from a deck of cards after the 3 of spades was just drawn and not returned to the deck)

c. P(drawing a face card from a deck of cards after a jack was just drawn and then replaced)

5. The sum of two consecutive integers is 145. What are the two integers? (Consecutive integers are integers in numerical order, such as "1, 2, 3" or "6, 7, 8.")

Describe: What do you know about the problem?

Define: Define your variables by completing the information below.

Smaller integer = x

Larger integer = _____
(hint: what do you add to 2 to get 3?)

Do: Calculate the value of the two integers. Write an equation by filling in the blanks below with the variable expressions you wrote in the "Define" step.

Smaller integer + Larger integer = 145

_____ + _____ = 145

Decide: Check your answer. Do the integers add up to 145?

Declare: In a complete sentence, state the values of the two integers.

6. Spend 10 minutes on IXL.