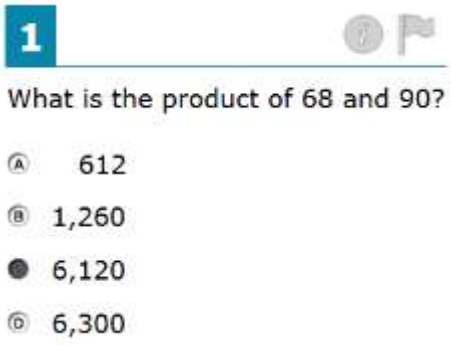
Grades 5-6 Mathematics Training Test Answer Key

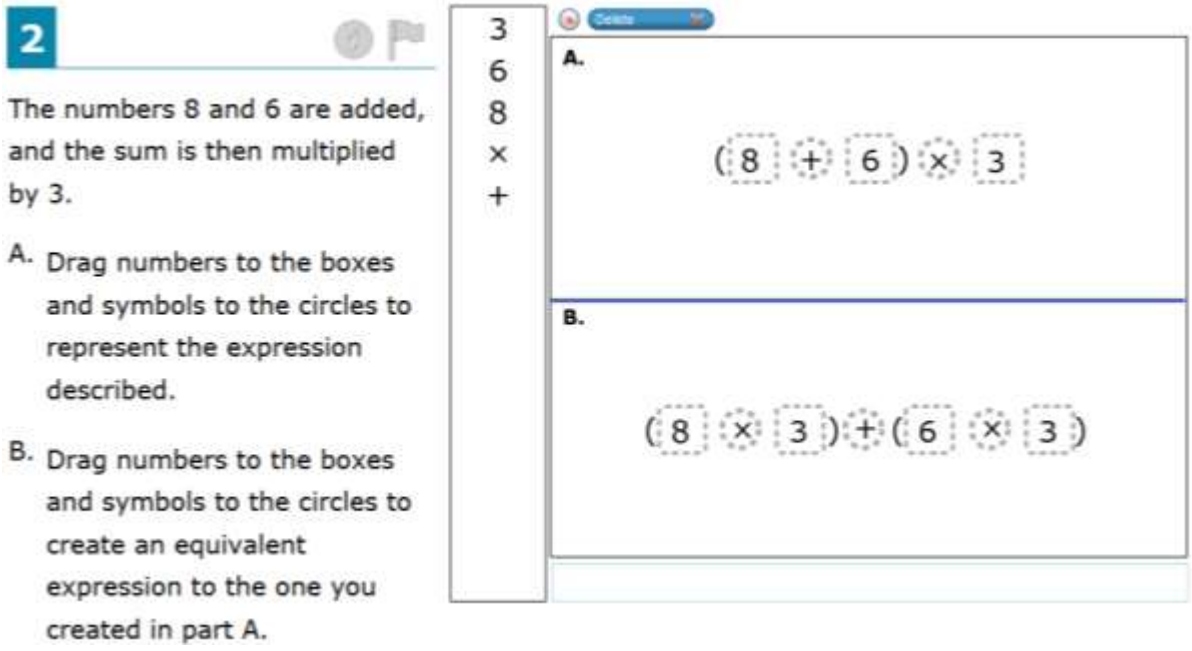
Florida
Standards Assessments

Question 1
Grade 5



Option A is incorrect because the number is missing a place value.
Option B is incorrect because 90 x 8 + 90 x 6 may have been computed.
Option C is correct because 68 x 90 is 6,120.
Option D is incorrect because 68 may have been rounded to 70.

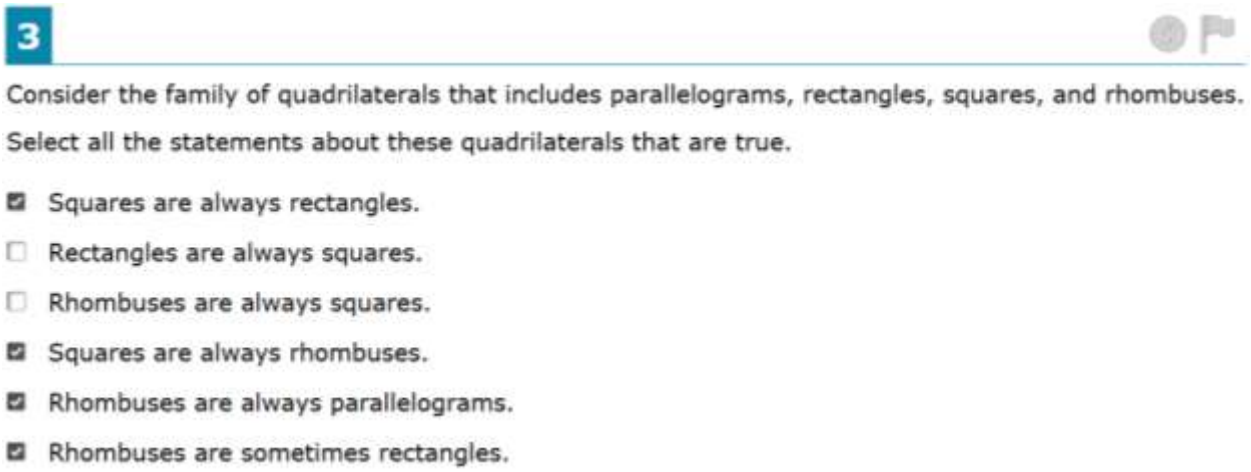
Question 2
Grade 5



Other Correct Responses:

- *part A: (6 + 8) x 3*
- *part B: any equivalent expression that correctly applies the distributive property*

Question 3
Grade 5



The first option is correct because both squares and rectangles are defined as having four right angles, with opposite parallel and congruent sides.
The second option is incorrect because squares must have all sides congruent.
The third option is incorrect because the angles in a rhombus are not always 90 degrees.
The fourth option is correct because both squares and rhombuses have congruent sides and opposite parallel sides.
The fifth option is correct because both rhombuses and parallelograms have opposite parallel sides.
The sixth option is correct because rhombuses that are squares are also rectangles.

Question 4
Grade 6

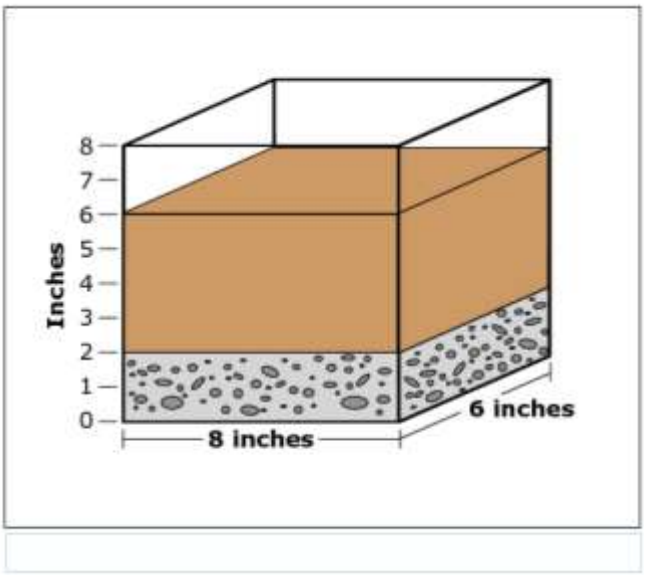
4

Charlie is creating a terrarium.

He put rocks in the bottom, and now he needs to put in soil.

At least $\frac{1}{3}$ of the terrarium should be filled with soil, but Charlie only has 250 cubic inches of soil.

Click on the terrarium to fill it with the correct amount of soil.



Other Correct Responses:

- *any model showing a soil height reaching between 5 inches and 7 inches*

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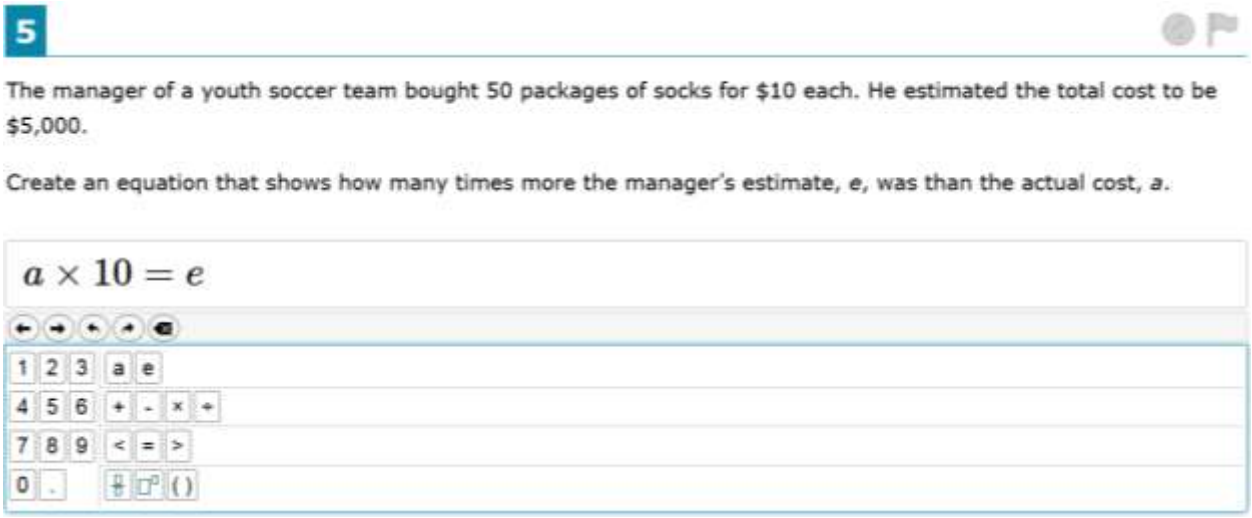
Question 5
Grade 5



Other Correct Responses:

- *any equivalent equation*

Question 6
Grade 6

6

Two expressions are shown

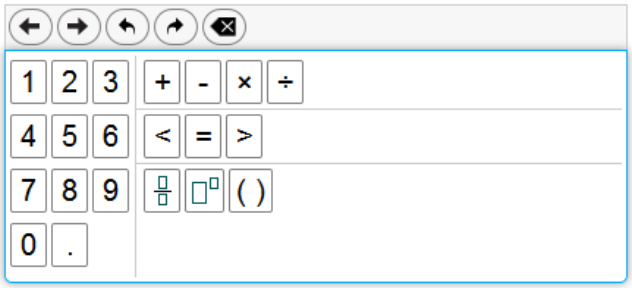
$3^2 \times 3^3$
3^5

What is the value of each expression?

Enter each answer on a separate line.

243

243



Question 7
Grade 5

7

A multiplication problem is shown in the answer space.

Drag numbers to the boxes to complete the problem.

0
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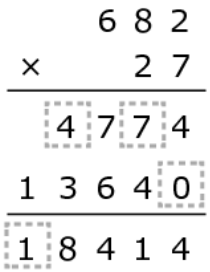
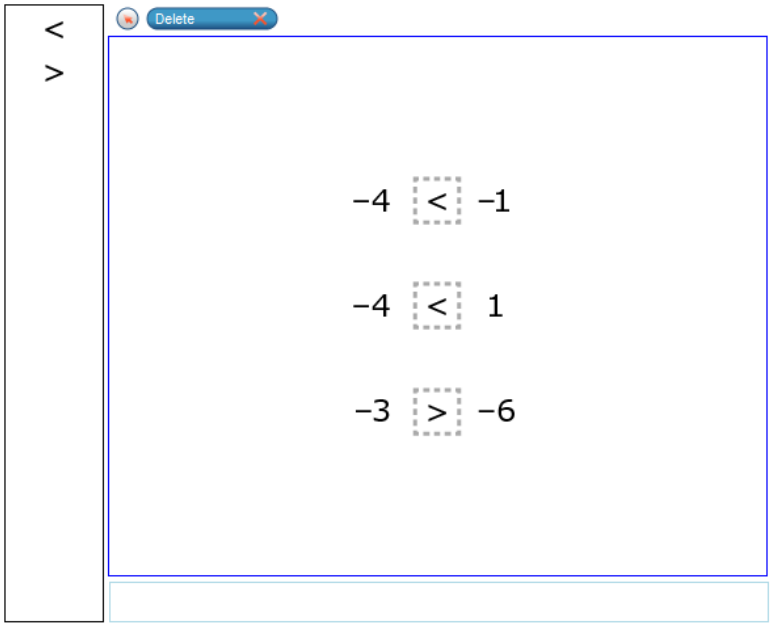
Delete



Question 8
Grade 6

8

Drag an inequality sign to each box to compare the pairs of numbers.



Question 9
Grade 5

9

A table is shown.

Pattern A	4	5	6	7	8
Pattern B	12	15	18	21	24

Create an equation that describes the relationship between Pattern A and Pattern B.

$3A = B$

1 2 3 A B
4 5 6 + - × ÷
7 8 9 < = >
0 . ( )

Other Correct Responses:

- *any equivalent equation*

Question 10
Grade 5

10

A table is shown.

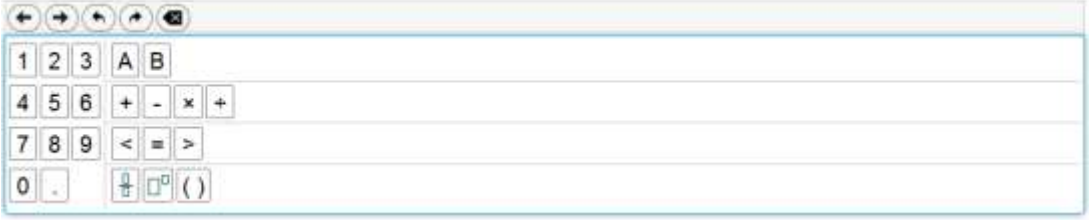
Pattern A	5	7	9	11	13	15
Pattern B	15	17	19	21	23	25

Create two different equations that show how Pattern A and Pattern B are related to each other.

Enter each equation on a separate line.

$A + 10 = B$

$B - 10 = A$



Other Correct Responses:

- *any equivalent equations*
- *the order of the responses may be reversed.*

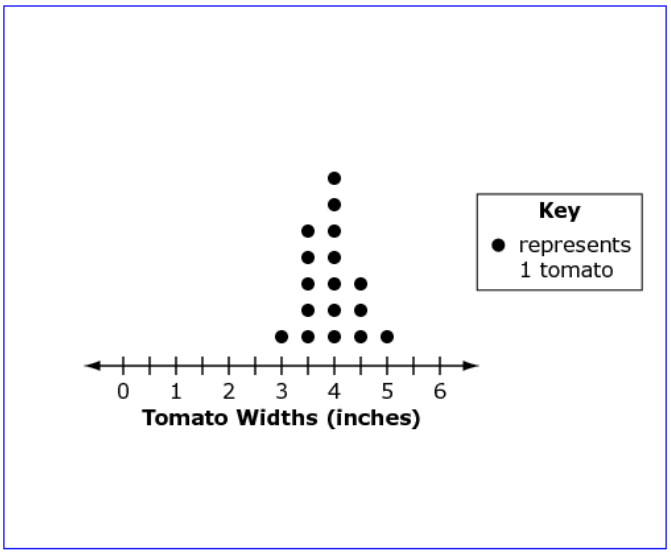
Question 11
Grade 6

11

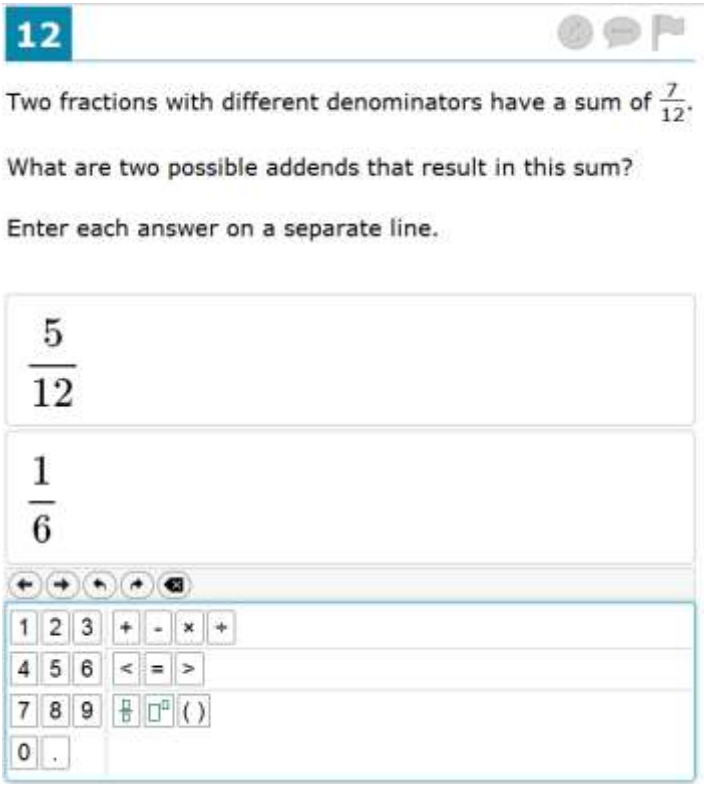
Middle school students are growing tomatoes. They record the width, in inches, of 17 tomatoes, as shown.

3, 3.5, 3.5, 3.5, 3.5, 3.5, 4, 4, 4, 4, 4, 4, 4, 4.5, 4.5, 4.5, 5

Click above the number line to create a line plot that represents the data shown.



Question 12
Grade 5



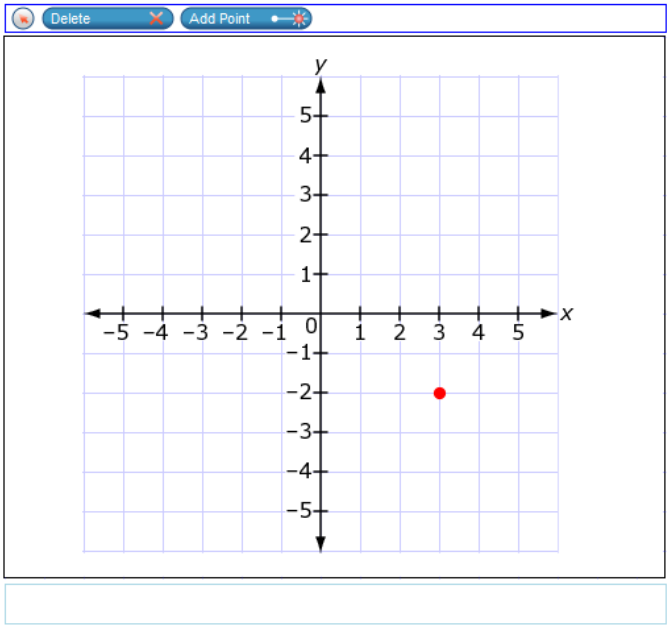
Other Correct Responses:

- *any two fractions that have a sum of 7/12 and have different denominators*

Question 13
Grade 6

13

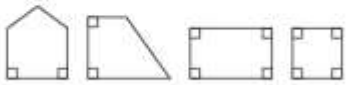
Use the Add Point tool to place a point at (3, –2).



Question 14
Grade 5

14

Two sets of shapes are shown.

Set M: 

Set N: 

- All the shapes in Set M have at least two 90-degree angles and one pair of parallel sides.
- All the shapes in Set N have at least two pairs of sides with equal lengths and two pairs of parallel sides.

Select all the statements that must be true.

- [x] Every shape in Set M has at least one right angle.
- [ ] Every shape in Set M is a parallelogram.
- [x] There appear to be two parallelograms in Set N.
- [x] There is one rhombus in Set N.
- [ ] Every shape in Set N is a quadrilateral.

The first option is correct because every shape in Set M has at least 2 right angles.
The second option is incorrect because only two of the shapes in Set M are parallelograms.
The third option is correct because there are two parallelograms in Set N.
The fourth option is correct because one of the shapes in Set N fits the classifications of a rhombus.
The fifth option is incorrect because two of the shapes have more than 4 sides.

Question 15
Grade 5

15

Juan has two pictures on his desk. The measurements are as follows:

- Picture A: 4 inches by $\frac{1}{2}$ inch
- Picture B: 4 inches by 2 inches

Use the Connect Line tool to draw the shape of each picture using the scale provided.

How much larger is Picture B than Picture A?

Drag a number to the box to complete the sentence.

0
1
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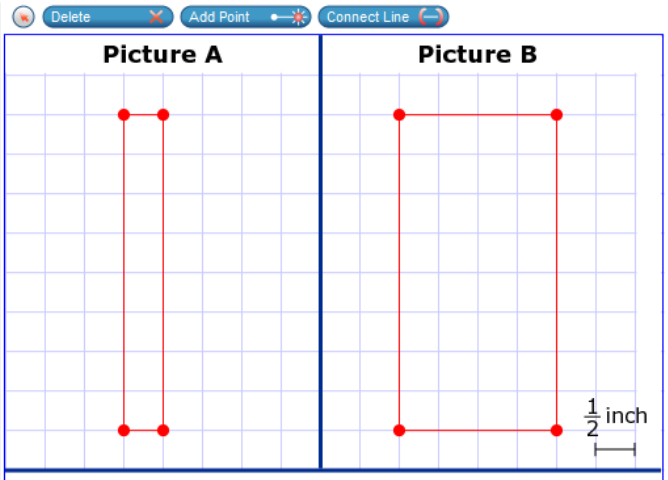


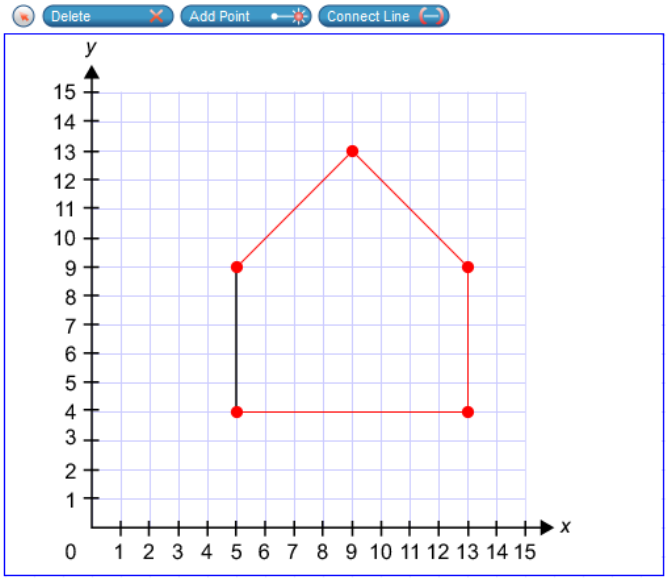
Question 16
Grade 6

16

One side of a pentagon with vertices at (5, 4) and (5, 9) are shown.

Use the Connect Line tool to draw the remaining sides of the pentagon with these conditions:

- at least two sides each have a length of 5 units, and
- at least one side has a length of 8 units.



Other Correct Responses:

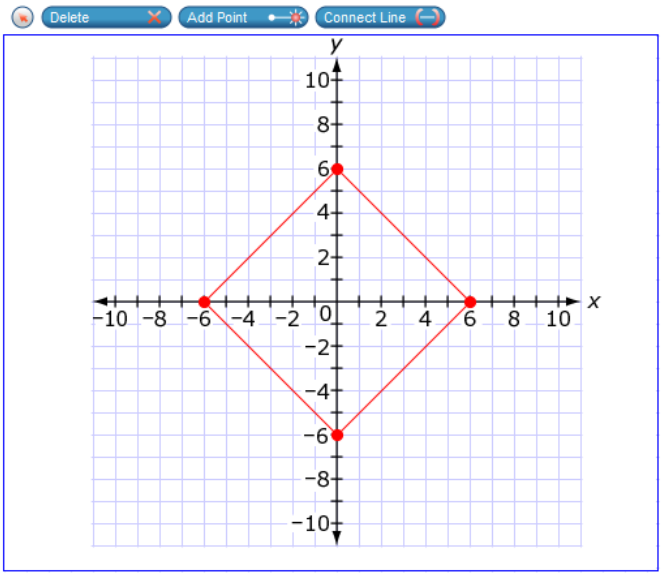
- *any pentagon that satisfies the requirements*

Question 17
Grade 6

17

The vertices for one side of a rhombus are located at (–6, 0) and (0, 6).

Use the Connect Line tool to draw the rhombus.



Question 18
Grade 5

18

An expression is given in words.

Add seven and seven, then multiply by seven, then divide by seven.

Which numeric expression is equivalent to the one given?

Ⓐ $(7 \times 7) + 7 \div 7$

Ⓑ $7 \times 7 + (7 \div 7)$

Ⓒ $(7 \times 7 + 7) \div 7$

● $7 \times (7 + 7) \div 7$

Option A is incorrect because the sum of 7 and 7 should have been within parentheses.
Option B is incorrect because the sum of 7 and 7 should have been within parentheses.
Option C is incorrect because the expression is equivalent to 8 instead of 14.
Option D is correct because the numerical expression is equivalent to the verbal expression.

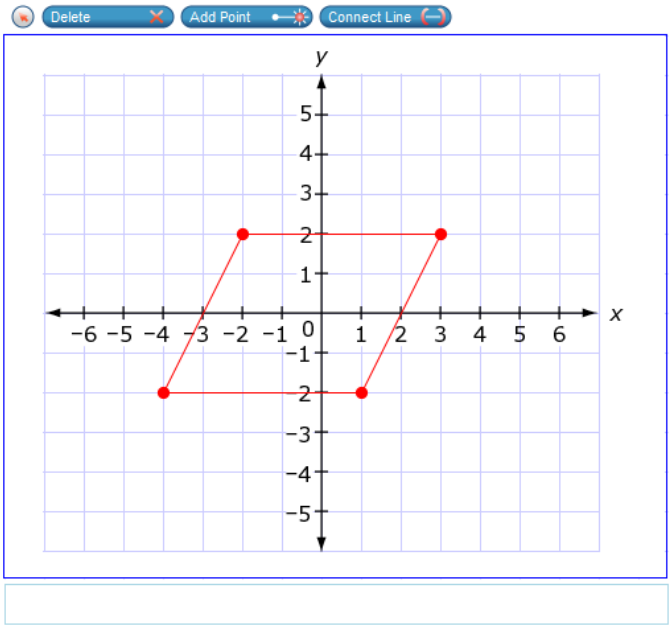
Question 19
Grade 6

19

Three vertices of a parallelogram are shown.

(–2, 2), (3, 2), and (1, –2)

Use the Connect Line tool to draw the parallelogram.



Question 20
Grade 5

20

Two fractions have a sum of $\frac{1}{3}$.

The denominators of the two fractions are different.

Drag numbers to the boxes to show an equation that meets these conditions.

0
1
2
3
4
5
6
7
8
9

Delete

Fraction Equation

$$\frac{1}{6} + \frac{2}{12} = \frac{1}{3}$$

Other Correct Responses:

- *any two fractions with different denominators and a sum of 1/3.*

Question 21
Grade 5

21

A problem is shown.

Click on an expression to highlight where the first error in solving the problem occurred.

Then drag numbers to the box to show the correct answer to the problem.

0
1
2
3
4
5
6
7
8
9

Delete

$16 + [\ 9 \times (3 - 1) + 8\ ] \div 2$
$16 + [\ 9 \times 2 + 8\ ] \div 2$
$16 + [\ 9 \times 2 + 4\ ]$
$16 + [\ 18 + 4\ ]$
$16 + 22$
38

$16 + [\ 9 \times (3 - 1) + 8\ ] \div 2 =$ 29

Question 22
Grade 6

22

The base and height of a triangle are each equal to the side length of a square.

How does the area of the triangle relate to the area of the square?

Type your answer in the space provided.

The area of the triangle is half the area of the square.

Other Correct Responses:

- *The area of a square is twice the area of a triangle.*