Smarter Balanced Assessment Consortium:
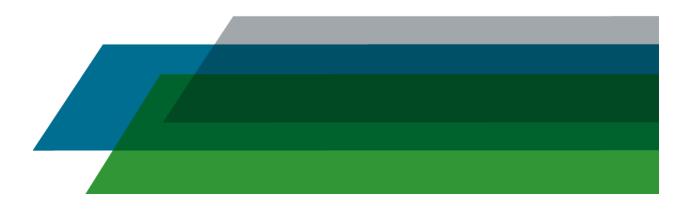
Practice Test Scoring Guide

Grade 5

Published July 1, 2013

Prepared by the American Institutes for Research®

604

Several expressions are shown.

Decide if the value of the expression is less than, equal to, or greater than 15.

Drag the expressions to the correct category in the chart.
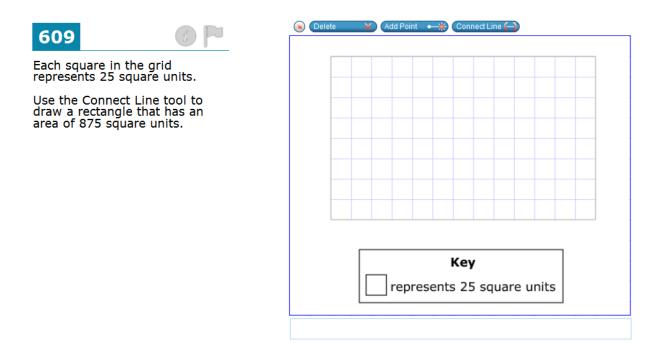
Less than 15	Equal to 15	Greater than 15

$2 \times \frac{1}{2} \times (5 \times 3)$ $(5 \times 3) \div 5$ $\frac{1}{4} \times (5 \times 3)$

$(5 \times 3) + 6$ $20 - (5 \times 3)$ $(5 \times 3) \times (8 - 7)$

$1 \times (5 \times 3)$ $2 \times (5 \times 3)$

For this item, a full-credit response (2 points) includes:

- $20 - (5 \times 3)$, $(5 \times 3) \div 5$, and $\frac{1}{4} \times (5 \times 3)$ in the "Less than 15" column
  AND
- $2 \times \frac{1}{2} \times (5 \times 3)$, $(5 \times 3) \times (8 - 7)$, and $1 \times (5 \times 3)$ in the "Equal to 15" column
  AND
- $(5 \times 3) + 6$ and $2 \times (5 \times 3)$ in the "Greater than 15" column

For partial credit (1 point), the student correctly sorts at least four expressions.

609

Each square in the grid represents 25 square units.

Use the Connect Line tool to draw a rectangle that has an area of 875 square units.

Delete   Add Point   Connect Line

Key

☐ represents 25 square units

For this item, a full-credit response (1 point) includes:

- a rectangle with the dimensions 5 units by 7 units

Rob is calculating the area of this rectangle. His strategy is to multiply the whole numbers first and then multiply the fractions. Since $3 \times 5 = 15$ and $\frac{1}{3} \times \frac{1}{4} = \frac{1}{12}$, he concludes that the area of the rectangle is $15\frac{1}{12}$ square feet.

$5\frac{1}{4}$ ft

$3\frac{1}{3}$ ft

615

Find the correct area, in square feet, of the rectangle.

1	2	3	+	-	×	÷
4	5	6	<	≤	=	≥	>
7	8	9			
0	.			

For this item, a full-credit response (1 point) includes:

- the value $17\frac{1}{2}$

619

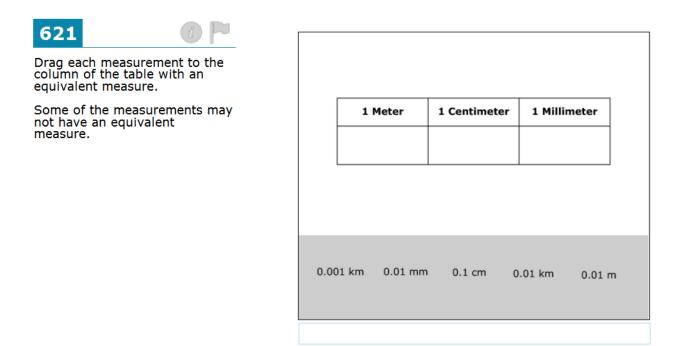Jen measured the growth of a sunflower.

- In week one, it grew $2\frac{1}{2}$ inches.

- In week two, it grew $2\frac{3}{4}$ inches.

- In week three, it grew $3\frac{1}{4}$ inches.

How much did the sunflower grow in the three weeks?

Ⓐ $5\frac{3}{4}$ in

Ⓑ $7\frac{1}{2}$ in

Ⓒ 8 in

Ⓓ $8\frac{1}{2}$ in

For this item, a full-credit response (1 point) includes:

- option D

621

Drag each measurement to the column of the table with an equivalent measure.

Some of the measurements may not have an equivalent measure.

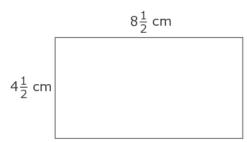| 1 Meter	1 Centimeter	1 Millimeter

0.001 km   0.01 mm   0.1 cm   0.01 km   0.01 m

For this item, a full-credit response (1 point) includes:

- 0.001 km in the "1 Meter" column
  AND
- 0.01 m in the "1 Centimeter" column
  AND
- 0.1 cm in the "1 Millimeter" column

622

Look at the rectangle.

$8\frac{1}{2}$ cm

$4\frac{1}{2}$ cm

What is the area of the rectangle in square centimeters?

1	2	3	+	-	×	÷
4	5	6	<	≤	=	≥	>
7	8	9			
0	.				

For this item, a full-credit response (1 point) includes:

- the value $38\frac{1}{4}$

612

James folds a square piece of paper in half to create a rectangle with a perimeter of 12 inches.
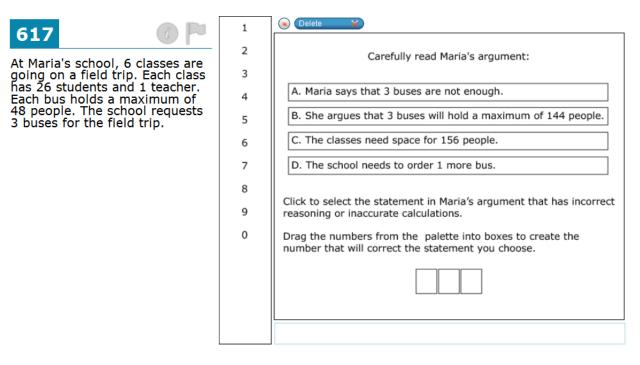
A. Use the Connect Line tool to draw the **original square**.

B. Select number(s) to show the area of the **rectangle** James creates.

Delete | **Add Point** | **Connect Line**

A. Original square

1 in.

B. Area of rectangle

square inches

0	0
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9

For this item, a full-credit response (2 points) includes:

- a square with the dimensions 4 by 4
  AND
- the value 8 in the box labeled "Area of rectangle"

For partial credit, the student completes each task for 1 point each.

617

At Maria's school, 6 classes are going on a field trip. Each class has 26 students and 1 teacher. Each bus holds a maximum of 48 people. The school requests 3 buses for the field trip.

| 1 |
| 2 |
| 3 |
| 4 |
| 5 |
| 6 |
| 7 |
| 8 |
| 9 |
| 0 |

Delete ✕

Carefully read Maria's argument:

A. Maria says that 3 buses are not enough.

B. She argues that 3 buses will hold a maximum of 144 people.

C. The classes need space for 156 people.

D. The school needs to order 1 more bus.

Click to select the statement in Maria's argument that has incorrect reasoning or inaccurate calculations.

Drag the numbers from the palette into boxes to create the number that will correct the statement you choose.

☐☐☐

For this item, a full-credit response (1 point) includes:

- statement C
  AND
- the value 162

613

Connor is buying tickets to a play. The play he and his friends want to see costs $4.75 per ticket. Connor has $26.00 in his pocket.

What is the greatest number of tickets Connor can buy?

- Ⓐ 4
- Ⓑ 5
- Ⓒ 6
- Ⓓ 7

For this item, a full-credit response (1 point) includes:

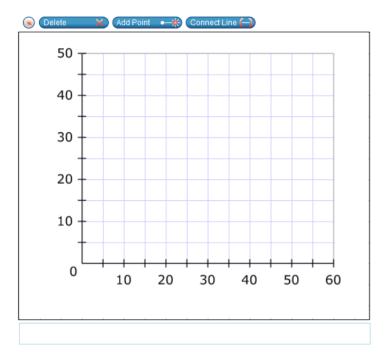- option B

623

Which number is equal to 10^4?

Ⓐ 100

Ⓑ 1,000

Ⓒ 10,000

Ⓓ 100,000

For this item, a full-credit response (1 point) includes:
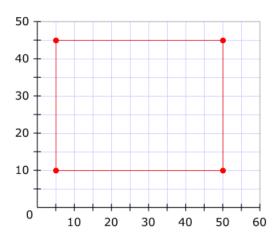
- option C

608

Use the Connect Line tool to draw a rectangle with an area of 1575 square units and a side of 45 units.

Delete | Add Point | Connect Line

For this item, a full-credit response (1 point) includes:

- a rectangle with the dimensions 45 by 35

For example,

620

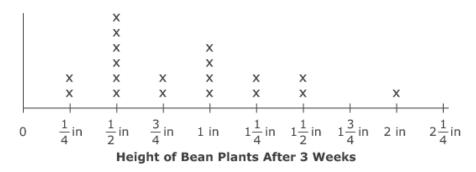A baker used 12 cups of batter to make muffins. It took $\frac{2}{3}$ cup of batter to make 1 muffin.

How many muffins did the baker make?

Ⓐ 6 muffins

Ⓑ 8 muffins

Ⓒ 18 muffins

Ⓓ 36 muffins

For this item, a full-credit response (1 point) includes:

- option C

627

This line plot shows the heights of the bean plants in a garden after 3 weeks.

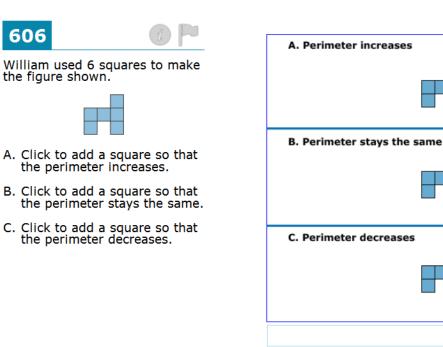**Height of Bean Plants After 3 Weeks**

What is the total height, in inches, of all the bean plants that are taller than 1 inch?

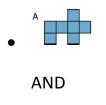

For this item, a full-credit response (1 point) includes:

- the value $7\frac{1}{2}$

606

William used 6 squares to make the figure shown.

A. Click to add a square so that the perimeter increases.

B. Click to add a square so that the perimeter stays the same.

C. Click to add a square so that the perimeter decreases.

A. Perimeter increases

B. Perimeter stays the same

C. Perimeter decreases

For this item, a full-credit response (3 points) includes:

- a shape with a perimeter greater than 14 units
  AND
- a shape with a perimeter of 14 units
  AND
- A shape with a perimeter of less than 14 units

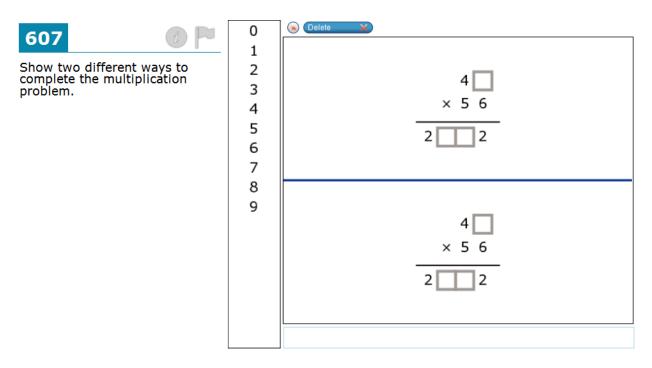For partial credit, the student completes each task for 1 point.
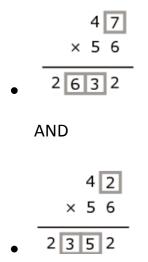
For example,

-

  AND

-

  AND

-

607

Show two different ways to complete the multiplication problem.

0
1
2
3
4
5
6
7
8
9

Delete X

$$\begin{array}{r} 4\ \square \\ \times\ 5\ 6 \\ \hline 2\ \square\ \square\ 2 \end{array}$$

$$\begin{array}{r} 4\ \square \\ \times\ 5\ 6 \\ \hline 2\ \square\ \square\ 2 \end{array}$$

For this item, a full-credit response (2 points) includes:

- $$\begin{array}{r} 4\ \boxed{7} \\ \times\ 5\ 6 \\ \hline 2\ \boxed{6}\ \boxed{3}\ 2 \end{array}$$

  AND

- $$\begin{array}{r} 4\ \boxed{2} \\ \times\ 5\ 6 \\ \hline 2\ \boxed{3}\ \boxed{5}\ 2 \end{array}$$
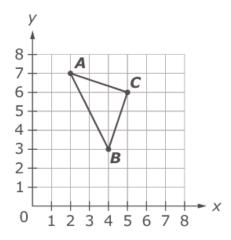
For partial credit, the student completes one multiplication problem correctly for 1 point.

625

Look at triangle *ABC*.

What are the coordinates of points *A, B,* and *C?*

Ⓐ   *A* (2, 7), *B* (4, 3), *C* (5, 6)

Ⓑ   *A* (2, 7), *B* (5, 6), *C* (4, 3)

Ⓒ   *A* (7, 2), *B* (3, 4), *C* (6, 5)

Ⓓ   *A* (7, 2), *B* (4, 3), *C* (5, 6)

For this item, a full-credit response (1 point) includes:

- option A

624

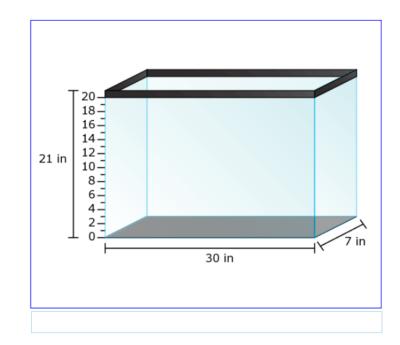Susan has 4 gallons of juice. How many cups of juice does she have?

For this item, a full-credit response (1 point) includes:
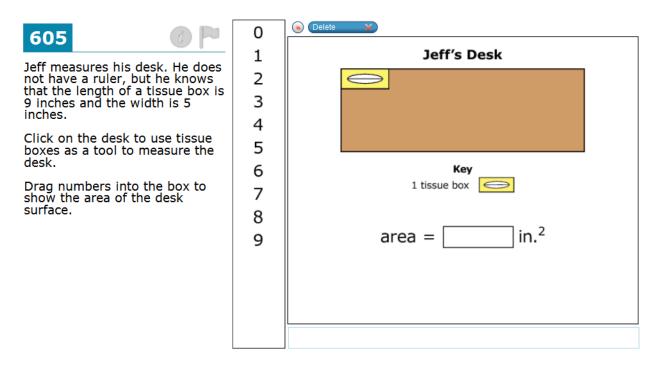
- the value 64

618

Walter puts 1050 cubic inches of dirt into the tank shown.

Click the number line to show the height of the dirt in the tank.

For this item, a full-credit response (1 point) includes:

- the tank filled to 5 inches

605

Jeff measures his desk. He does not have a ruler, but he knows that the length of a tissue box is 9 inches and the width is 5 inches.

Click on the desk to use tissue boxes as a tool to measure the desk.

Drag numbers into the box to show the area of the desk surface.

0
1
2
3
4
5
6
7
8
9

Delete

Jeff's Desk

Key

1 tissue box

area = [ ] in.^{2}

For this item, a full-credit response (1 point) includes:

- the value 900

610

In a game at a carnival, a person throws rings onto a table with different colors painted on it. Each color has different point values as shown.

- Blue: 5 points
- Red: 3 points
- Yellow: 2 points

Hailey plays the game. Exactly 12 rings thrown by Hailey landed in the red section as shown. She keeps throwing more rings. She eventually scores 55 points.

Drag rings onto the blue and yellow areas to show how Hailey could score 55 points.

For this item, a full-credit response (1 point) includes:
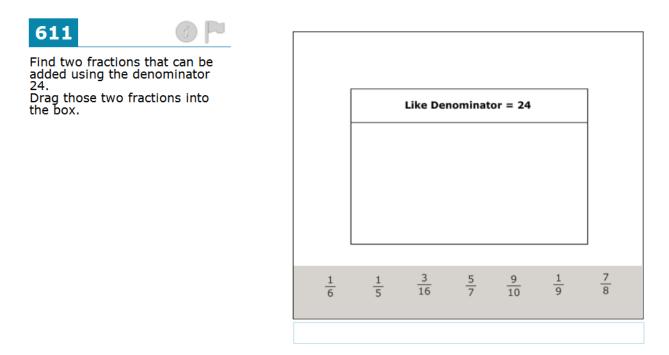
- 1 blue ring and 7 yellow rings
  OR
- 3 blue rings and 2 yellow rings

628

Tyler is 8 years old. His sister Olivia is 4 years less than twice his age.

Write a numerical expression for Olivia's age.

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

For this item, a full-credit response (1 point) includes:

- an expression equivalent to $(2 \times 8) - 4$

611

Find two fractions that can be added using the denominator 24.
Drag those two fractions into the box.

Like Denominator = 24

$\frac{1}{6}$ $\frac{1}{5}$ $\frac{3}{16}$ $\frac{5}{7}$ $\frac{9}{10}$ $\frac{1}{9}$ $\frac{7}{8}$

For this item, a full-credit response (1 point) includes:

- the fractions $\frac{1}{6}$ and $\frac{7}{8}$ in the box labeled "Like Denominator = 24"