Smarter Balanced Assessment Consortium:

Practice Test Scoring Guide

Grade 6

656

Drag each expression into the correct column.

Equal to 5.42	Not Equal to 5.42

2.36 + 3.06	2.16 + 3.36	2.71 × 2
1.80 × 3	9.53 - 4.11	8.01 - 2.69

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

- (2.71×2), $(9.53 - 4.11)$, and $(2.36 + 3.06)$ in the "Equal to 5.42" column
  AND
- $(2.16 + 3.36)$, (1.80×3), and $(8.01 - 2.69)$ in the "Not Equal to 5.42" column

637

Bill wants to run a total of 4,000 meters in 5 days.

The table shows how far he runs each day for 4 days.
Each lap is 400 meters.

Day of Week	Laps Run
Monday	$1\frac{1}{4}$
Tuesday	$1\frac{3}{4}$
Wednesday	$1\frac{5}{8}$
Thursday	$2\frac{1}{2}$

How many laps should he run on Friday?

Drag numbers into the box to show your answer. The box can hold up to two drag elements.

1

2

3

4

5

$\frac{1}{8}$

$\frac{1}{4}$

$\frac{3}{4}$

$\frac{5}{8}$

$\frac{7}{8}$

Delete

Bill should run [ ] laps on Friday.

For this item, a full-credit response (1 point) includes:
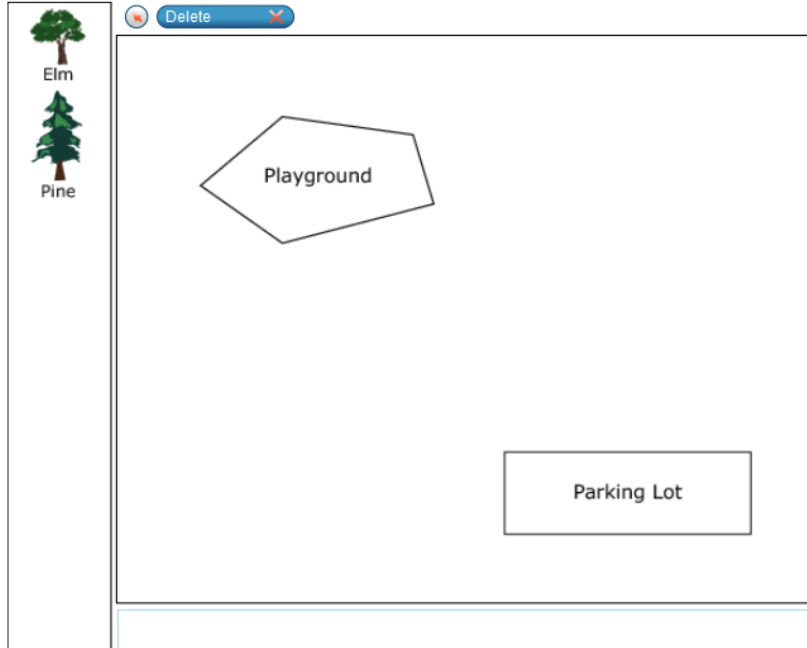
- $2\frac{7}{8}$ in the box

636

A landscape designer is planning the layout of trees in a park.
- There are two types of trees: elm and pine.
- There should be at least 16 total trees but no more than 30.
- The ratio of elm trees to pine trees will be 3:2.

Drag trees anywhere to the model to show a possible number of each type of tree.

Elm

Pine

Delete

Playground

Parking Lot

For this item, a full-credit response (1 point) includes:
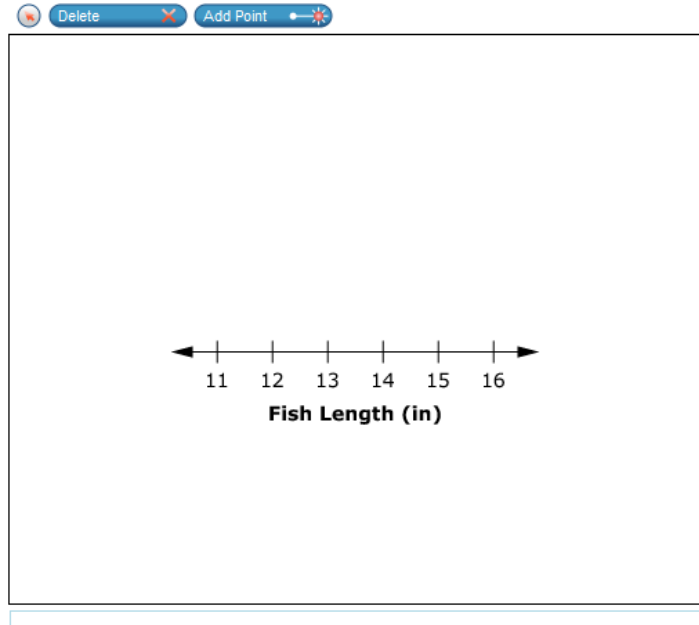
- 16 to 30 total trees

   AND

- 3 elm trees for every 2 pine trees

657

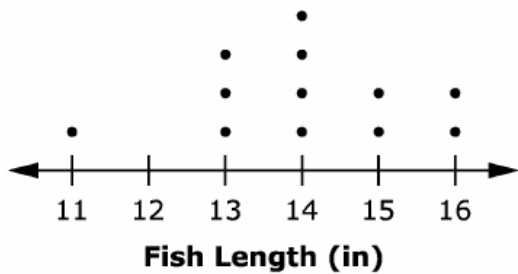The following are the lengths in inches of twelve fish caught one day:

11, 13, 13, 13, 14, 14, 14, 14, 15, 15, 16, 16

Use the Point tool to create a dot plot to display the data.

Delete ✕ Add Point •—✳

```
         ←―+――+――+――+――+――+―→
           11  12  13  14  15  16
              Fish Length (in)
```

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

- the correct dot plot as shown below

```
                    •
              •     •
              •     •     •     •
        •     •     •     •     •
     ←―+――+――+――+――+――+―→
       11  12  13  14  15  16
          Fish Length (in)
```

635

An equation is shown.

$$\frac{2}{3} \times \frac{\square}{\square} = n$$

Sarah claims that for any fraction multiplied by $\frac{2}{3}$, n will always be less than $\frac{2}{3}$.

A. Drag one number into each box to complete an equation that supports Sarah's claim.

B. Drag one number into each box to complete an equation that does not support Sarah's claim.

1
2
3
4
5
6
7
8
9

Delete ✕

A. Supports Sarah's Claim

$$\frac{2}{3} \times \frac{\square}{\square} = n$$

B. Does not support Sarah's Claim

$$\frac{2}{3} \times \frac{\square}{\square} = n$$

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

- a fraction less than 1 in part A

  AND

- a fraction greater than or equal to 1 in part B

638

Kate waters the garden every 3 days and weeds it every 4 days.

She does both on April 2nd.

What is the next date that she will both water and weed her garden?

Select that date on the calendar.

APRIL						
Sun	Mon	Tues	Wed	Thu	Fri	Sat
					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

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

- selecting the date April 14

Juan has $7\frac{1}{2}$ cups of chopped nuts. He wants to make either banana nut muffins or carrot muffins. The table shows how many cups of nuts are needed for each batch.

Muffin Type	Chopped Nuts per Batch
Banana nut	$\frac{1}{2}$ cup
Carrot	$\frac{5}{8}$ cup

659

Part A

How many batches of banana nut muffins can Juan make if he makes only banana nut muffins?

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

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

- the value 15

Juan has $7\frac{1}{2}$ cups of chopped nuts. He wants to make either banana nut muffins or carrot muffins. The table shows how many cups of nuts are needed for each batch.

Muffin Type	Chopped Nuts per Batch
Banana nut	$\frac{1}{2}$ cup
Carrot	$\frac{5}{8}$ cup

660

Part B

How many batches of carrot muffins can Juan make if he makes only carrot muffins?

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

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

- the value 12

633

Drag one number into each box to create three true mathematical statements.

$$\boxed{} > \boxed{}$$

$$\boxed{} < \boxed{}$$

$$\boxed{} = \boxed{}$$

| $|-2|$ | 6 | 7 | -3 |
| -5 | -6 | -7 | $|-7|$ |

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

- a value on the left that is greater than the value on the right for the first statement
  AND
- a value on the left that is less than the value on the right for the second statement
  AND
- a value on the left that is equal to the value on the right for the third statement

For partial credit (1 point), a student creates any two correct statements.

For example,

- $6 > -6$
  AND
- $-3 < |-2|$
  AND
- $7 = |-7|$

641

A scientist measures the masses of some turtles using digital scales.

- Scale A measures to the nearest tenth of a gram.
- Scale B measures to the nearest hundredth of a gram.

Drag the actual masses of the turtles into the boxes to tell whether the two scales' readings will be the same or different.

Same Readings	Different Readings

36.011 g   35.996 g   36.102 g

34.309 g   36.004 g   35.689 g

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

- 35.996 g, 36.004 g, and 36.102 g in the "Same Readings" column AND
- 36.011 g, 34.309 g, and 35.689 g in the "Different Readings" column

Robert recorded the temperature outside his house in the table shown.

Time	Temperature (°F)
4:00 p.m.	15
6:00 a.m.	-7

Robert claims the difference between the temperatures is 8 degrees.

643   ⓘ ⚑

Part A

Explain why Robert's claim is incorrect.

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

- an accurate description of why Robert's claim is incorrect

For example,

- "He subtracted 7 from 15 instead of −7."
  OR
- "He added fifteen and negative seven instead of subtracting negative seven from 15."
  OR
- "He didn't take into account the fact that −7 is 7 below zero and 15 is 15 above zero."

For this item, an incorrect response (0 points) includes:

- an incorrect description of why Robert's claim is incorrect

For example,

- "He subtracted −7 from 15."

This item is not graded for spelling or grammar.

Robert recorded the temperature outside his house in the table shown.

Time	Temperature (°F)
4:00 p.m.	15
6:00 a.m.	-7

Robert claims the difference between the temperatures is 8 degrees.

644

Part B

What is the correct difference in temperatures?
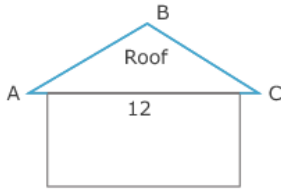
1	2	3
4	5	6
7	8	9
0	.	-

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

- the value 22

640

Jose is transferring this drawing of a triangular roof to a coordinate plane.

He plots point A at (-5, 2) and point B at (1, 6).

The length of the base of the roof is 12 units in length.

Use the Connect Line tool to graph point C and connect the three points.
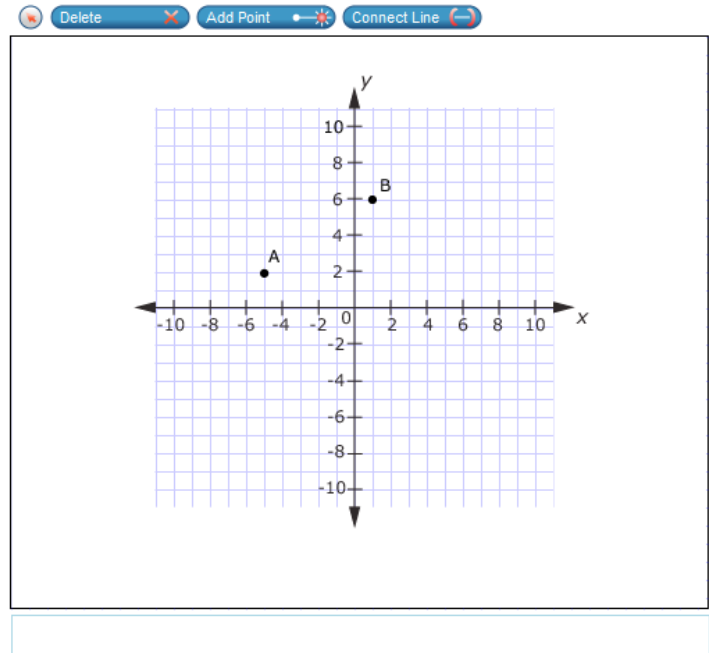
For this item, a full-credit response (1 point) includes:

- a line segment from point A (−5, 2) to the point (7, 2)
  AND
- a line segment from point A (−5, 2) to the point B (1, 6)
  AND
- a line segment from point B (1, 6) to the point (7, 2)

632

An artist is using red, blue, and green tiles to create a mosaic.

- The ratio of red tiles to total tiles should be 2:5.
- For every 2 blue tiles, there should be 1 green tile.

Drag tiles into the space to create a set of tiles the artist could use.

R

B

G

Delete

Set of Tiles

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

- $\frac{2}{5}$ of the total tiles being red

  AND

- $\frac{2}{5}$ of the total tiles being blue

  AND

- $\frac{1}{5}$ of the total tiles being green

For partial credit (1 point), a student creates a set that satisfies

- the first condition

  OR

- the last two conditions

634

The area and one dimension of a piece of land are given.

Drag a number into each box the number that represents the second dimension of the piece of land described.

$\frac{1}{2}$
$\frac{1}{3}$
$\frac{2}{3}$
$\frac{2}{5}$
$\frac{3}{4}$
$\frac{3}{5}$
$\frac{4}{5}$

Delete ✕

☐ **mile**   The area of a rectangular piece of land is $\frac{6}{10}$ square mile. One dimension of this piece of land is $\frac{3}{4}$ mile.

☐ **mile**   The area of a piece of land that is in the shape of a triangle is $\frac{1}{6}$ square mile. One dimension of this piece of land is $\frac{2}{3}$ mile.

☐ **mile**   The area of a rectangular piece of land is $\frac{4}{25}$ square mile. One dimension of this piece of land is $\frac{2}{5}$ mile.

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

- $\frac{4}{5}$ in the top box

  AND

- $\frac{1}{2}$ in the middle box

  AND

- $\frac{2}{5}$ in the bottom box

For partial credit (1 point), a student places any two fractions correctly.

653

Micah constructs a rectangular prism with a volume of 360 cubic units. The height of his prism is 10 units.

Micah claims that the base of the prism must be a square.

Use the Connect Line tool to draw a base that shows Micah's claim is incorrect.

Delete ✕ Add Point •—✳ Connect Line ⊖

1 unit

For this item, a full-credit response (1 point) includes a rectangle with one of the following sets of dimensions:

- 2 units by 18 units

  OR

- 3 units by 12 units

  OR

- 4 units by 9 units

639

Carlos has 2.4 meters of wire.

He needs 1.7 meters for one project and 0.8 meter for another project.

Shade the model to represent the total amount of wire Carlos needs.
Each full row represents 1.0 meter.

Does Carlos have enough wire?
- If so, answer how much wire he will have left over.
- If not, aswer how much more he needs.

| 0.1 |
| 0.2 |
| 0.3 |
| 0.4 |
| 0.5 |
| 0.9 |
| 1.6 |
| 2.5 |
| 3.2 |
| 4.1 |

Delete ✕

He will have ☐ m wire left over.

OR

He needs ☐ m more wire.

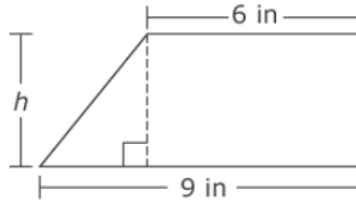For this item, a full-credit response (2 points) includes:

- 25 sections of the model shaded to represent 2.5 meters of wire AND
- 0.1 in the bottom box

For partial credit (1 point), a student completes only one of the above tasks.

631

The trapezoid shown is divided into a right triangle and a rectangle.

Use the Equation Tool to create an expression that could be used to determine the area of the trapezoid.

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

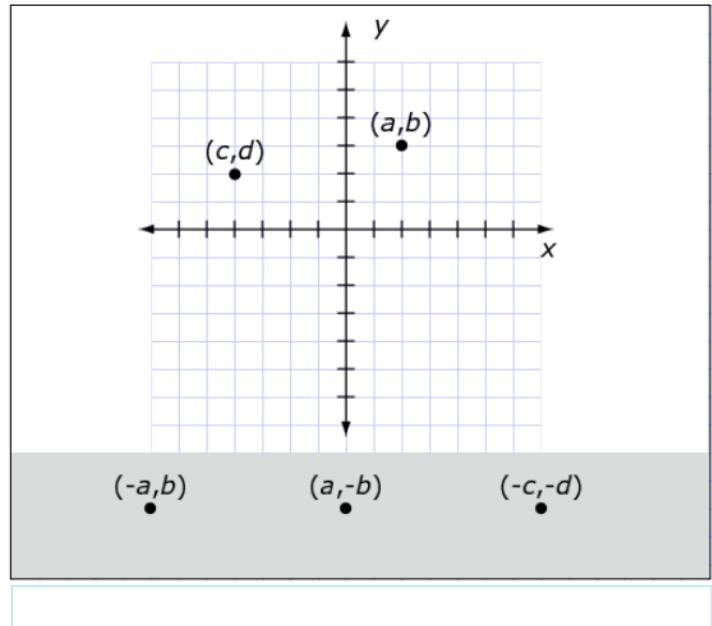- an expression equivalent to $\frac{1}{2}(3 \times h) + (h \times 6)$

650

Two ordered pairs are shown on a coordinate grid.

Drag each ordered pair to its correct location on the coordinate grid.

- $(-a, b)$
- $(a, -b)$
- $(-c, -d)$

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

- point $(-a, \ b)$ at $(-2, \ 3)$
  AND
- point $(a, \ -b)$ at $(2, -3)$
  AND
- point $(-c, -d)$ at $(4, -2)$

For partial credit, a student earns 1 point for every point placed correctly.

655

Ms. Stone buys groceries for a total of $45.32. She now has $32.25 left.

Which equation could be used to find out how much money Ms. Stone had before she bought the groceries?

Ⓐ $\$45.32x = \$32.25$

Ⓑ $x - \$45.32 = \$32.25$

Ⓒ $x + \$45.32 = \$32.25$

Ⓓ $x + \$32.25 = \$45.32$

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

- option B

658

Several questions are shown.

Which question expects variability in the data related to it?

Drag one label into each box to show if the data related to each question has variability or not.

Variablity in Data

No Variablity in Data

Delete

| | How old is the athlete? |
	How many pets does each 6th grader have?
	How many 6th graders attend our school?
	How old are the animals at the zoo?
	How many baseball cards does the boy have?

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

- "Variability in Data" next to "How many pets does each 6th grader have?" and "How old are the animals at the zoo?"
  AND
- "No Variability in Data" next to "How old is the athlete?", "How many 6th graders attend our school?" and "How many baseball cards does the boy have?"

654

Look at the box-and-whisker plot of pumpkin weights.

Pumpkin Weights (lb)

8 10 12 14 16 18 20 22 24
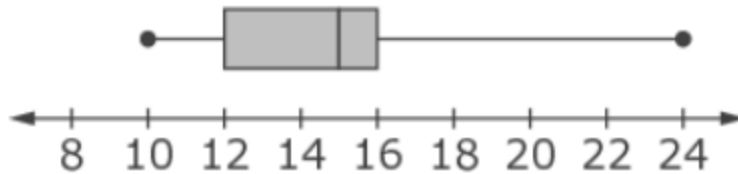
What is the **median** pumpkin weight?

Ⓐ   12 lb
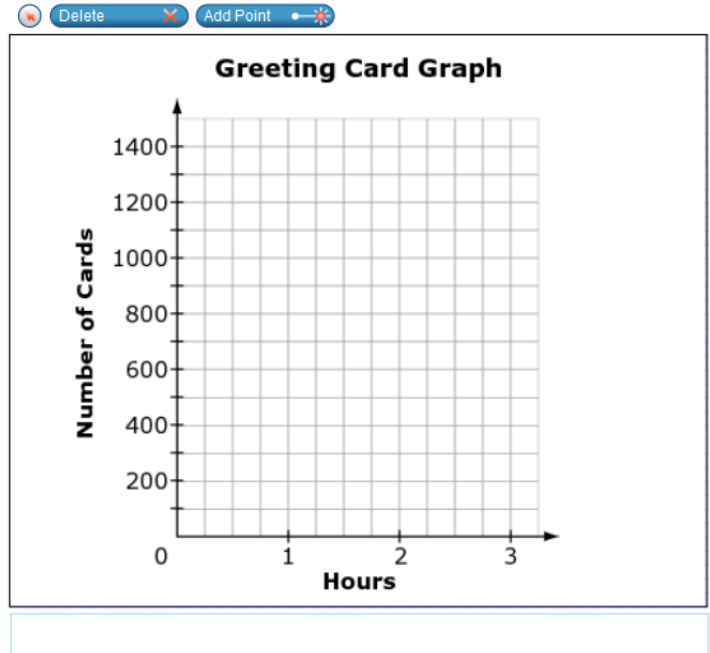
Ⓑ   14 lb

Ⓒ   15 lb

Ⓓ   16 lb

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

- option C

651

A greeting card company prints 350 cards each hour.

Use the Add Point tool to plot how many cards the company prints after 2 and 3 hours.

Delete ✕ Add Point ●—✳

Greeting Card Graph

Number of Cards

1400
1200
1000
800
600
400
200

0   1   2   3

Hours

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

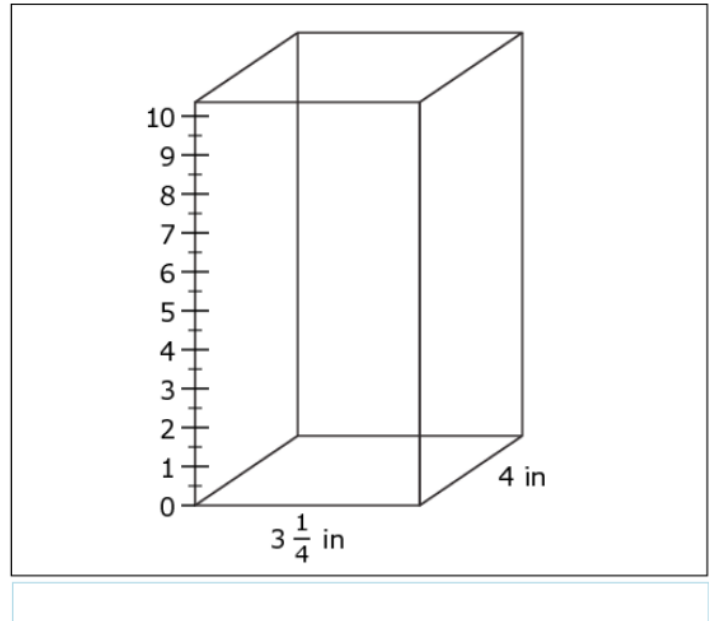- a point at $(2, 700)$
  AND
- a point at $(3, 1050)$

652

Tana fills the prism shown with $110\frac{1}{2}$ in^3 of liquid.

Select the height of the liquid in the prism.

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

- the tank filled to the $8\frac{1}{2}$ inch mark