

Smarter Balanced Assessment Consortium:

Practice Test Scoring Guide Grade 4

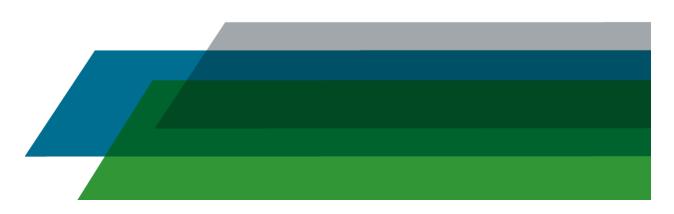
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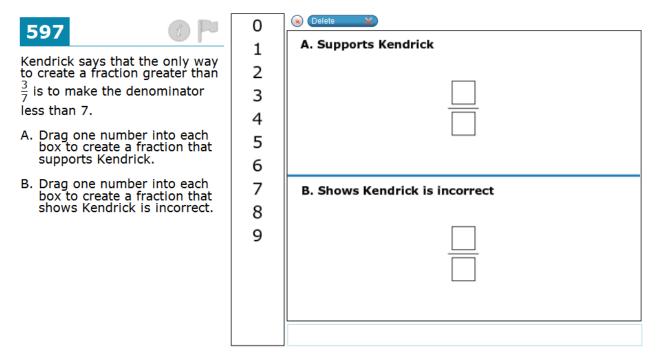
Prepared by the American Institutes for Research®



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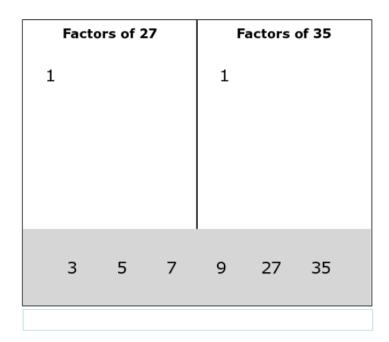
For this item, a full-credit response (2 points) includes:

- a fraction with a denominator less than 7 that is greater than 3/7 AND
- a fraction with a denominator greater than or equal to 7 that is greater than 3/7

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



Drag each number into the correct answer space.



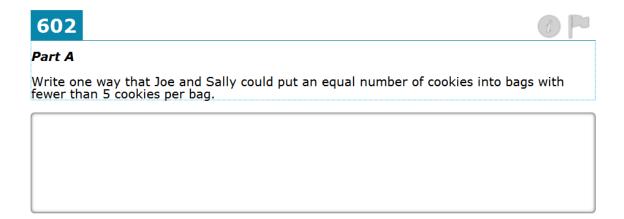
For this item, a full-credit (1 point) response includes:

- 3, 9, and 27 in the "Factors of 27" column AND
- 5, 7, and 35 in the "Factors of 35" column

Joe and Sally make 72 cookies for a bake sale. They will put an equal number of cookies into bags. Joe and Sally want to put more than 2 cookies but fewer than 10 cookies into each bag.

Sally says they can only put 8 cookies into 9 bags or 9 cookies into 8 bags.

Joe thinks there are more ways to put an equal number of cookies into bags.



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

accurately selecting one factor pair consisting of a number greater than
 2 and less than 5

For example,

- "3 cookies in 24 bags"
 OR
- "4 in 18 bags"

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

• the absence of both factor pairs

For example,

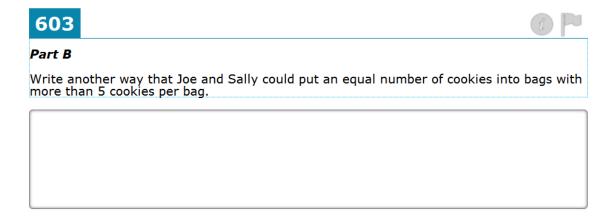
- "3 cookies" OR
- "24 bags"

This item is not graded for spelling or grammar.

Joe and Sally make 72 cookies for a bake sale. They will put an equal number of cookies into bags. Joe and Sally want to put more than 2 cookies but fewer than 10 cookies into each bag.

Sally says they can only put 8 cookies into 9 bags or 9 cookies into 8 bags.

Joe thinks there are more ways to put an equal number of cookies into bags.



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

• accurately selecting the factor pair consisting of 6 cookies and 12 bags

For example,

• "6 cookies in 12 bags"

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

• the absence of both factor pairs

For example,

- "6 cookies" OR
- "12 bags"

This item is not graded for spelling or grammar.

578



Drag each expression to the correct column to show whether the product is less than or greater than 1.

Less Than 1	Greater Than 1
	1 . 3 . 2
$3 \times \frac{1}{2}$ $5 \times \frac{1}{4}$ $1 \times \frac{1}{4}$	$\times \frac{1}{5}$ $\left[4 \times \frac{3}{5} \right]$ $\left[2 \times \frac{2}{5} \right]$

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

- $1 \times \frac{1}{5}$ and $2 \times \frac{2}{5}$ in the "Less Than 1" column AND
- $3 \times \frac{1}{2}$, $5 \times \frac{1}{4}$, and $4 \times \frac{3}{5}$ in the "Greater Than 1" column

582



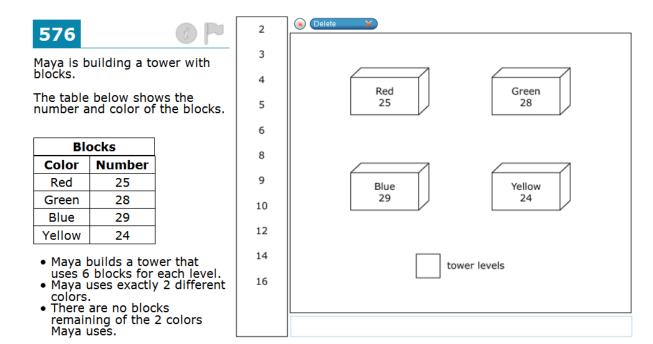
Jo has a piece of tape that is $\frac{7}{8}$ inch long. She cuts the tape into two pieces. One piece is $\frac{3}{8}$ inch long.

How long is the other piece of tape?

- \bigcirc $\frac{3}{8}$ in
- $^{\odot}$ $\frac{4}{8}$ in
- © $\frac{7}{8}$ in
- ⓑ $\frac{10}{8}$ in

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

• option B



Which color blocks does Maya use? Click on the correct two colors.

How many levels does Maya's tower have? Drag the correct number to the box.

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

- the red and blue boxes selected AND
- the value 9

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

581

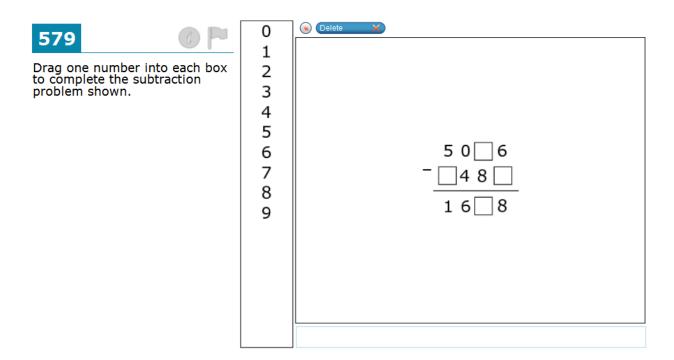


Select all equations that are true.

- $\frac{4}{10} = 0.04$
- $\frac{17}{100} = 0.17$
- $\frac{9}{100} = 0.09$
- $\frac{6}{100} = 0.60$

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

- option B
 - AND
- option C



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

• the correct equation

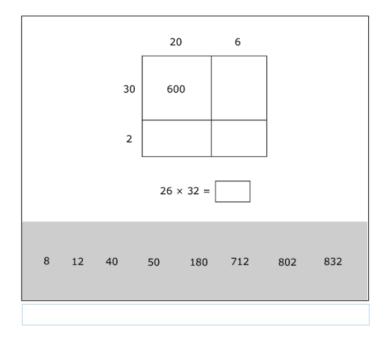




Drag numbers into each section of the area model to complete it.

The first one is done for you.

Then drag the product to complete the equation.



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

• the correct table as shown below

	20	6
30	600	180
2	40	12

OR

• the value 832

598



To play a game, each player must make a 5-digit **even** number. The player with the greatest number is the winner of the game. These digit cards show the number made by player 1.











These cards show which numbers are left.



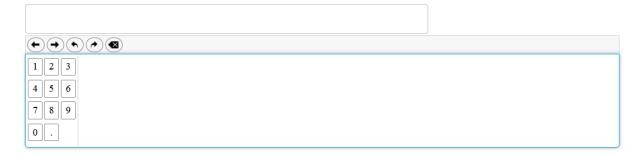








Use the remaining cards to create a 5-digit even number that will win the game.



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

a 5-digit even number greater than 87,654 containing the numbers 0, 1,
 2, 3, and 9

For example,

• the value 93,210

For partial credit (1 point), the student creates

- an even number less than 87,654
 OR
- an odd number greater than 87,654

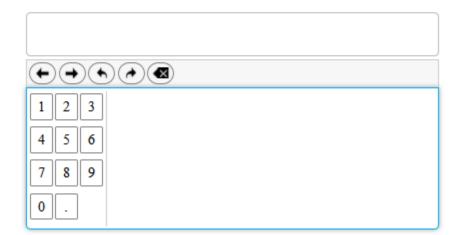


Use the rectangle to solve the problem.



The area of the rectangle is 420 square centimeters.

What is the perimeter, in centimeters, of the rectangle?



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

• the value 86

For partial credit (1 point), a student gives the missing dimension 15 instead of the perimeter.

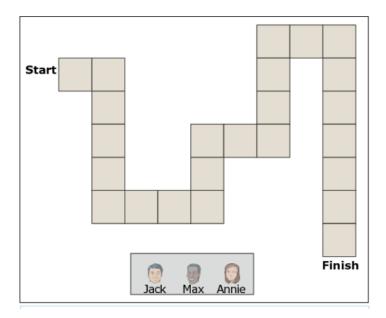




Jack, Max, and Annie are hiking on the same trail.

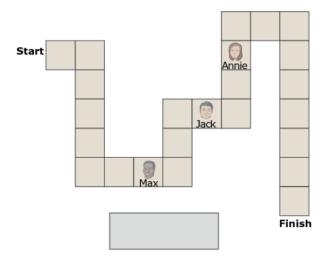
- Jack is $\frac{1}{2}$ finished.
- Max is $\frac{1}{3}$ finished.
- Annie is $\frac{5}{8}$ finished.

Drag each person to his or her location on the trail.



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

• the correct placement of Max, Jack, and Annie as shown



For partial credit (1 point), a student places at least 1 or 2 people correctly.

574



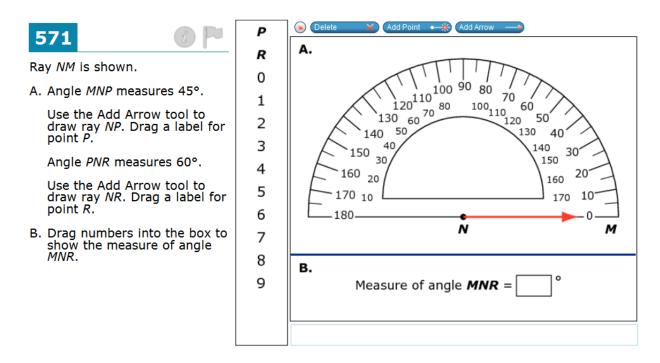
Which of the following expressions have a sum equal to $\frac{91}{100}$?

- $\frac{6}{10} + \frac{31}{100}$

- $\frac{86}{100} + \frac{5}{10}$

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

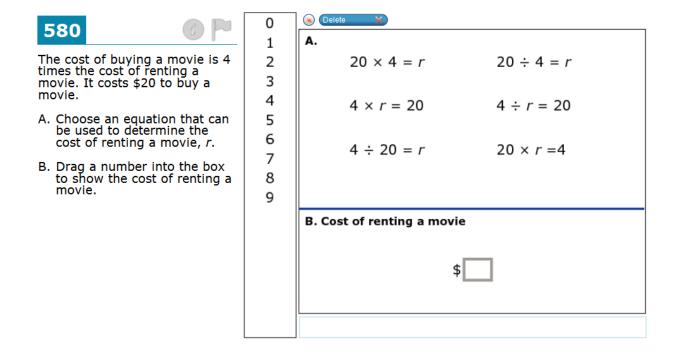
- option A AND
- option C



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

- angle MNP has a measure of 45 degrees, P is properly placed AND
- angle MNR has a measure of 105 degrees, R is properly placed AND
- a value of 105

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



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

- the equation $4 \times r = 20$ OR $20 \div 4 = r$ selected AND
- a value of 5

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

600



Javier says that all **odd** numbers greater than 2 and less than 20 are prime.

Find an odd number greater than 2 and less than 20 that is **not** prime. Explain why the number is not prime.

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

• the numbers 9 or 15 and an explanation of how they are not prime

For example,

- "9 is not prime because it is the product of 3 and 3"
 OR
- "9 is composite because 9 divided by 3 is 3"
 OR
- "15 because you can multiply 3 and 5 to get it"
 OR
- "fifteen is not prime because 3 times 5 is 15"

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

- an incorrect number OR
- a correct number without an explanation

For example,

- "21 is not prime because 7 times 3 is 21" OR
- "nine is not prime"

This item is not graded for spelling or grammar.





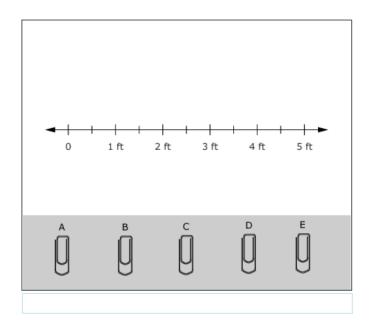
A class is making chains of paper clips for a project.

The table lists the length of each chain in inches.

Chain	Length (in)
Α	36
В	12
С	48
D	24
E	60

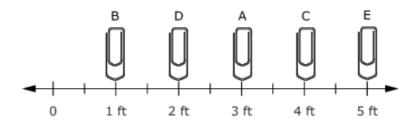
The number line is measured in feet.

Drag each paper clip representing the labeled chain to the number line to show its length in feet. Place the paper clips above the number line.



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

• the correct number line as shown below



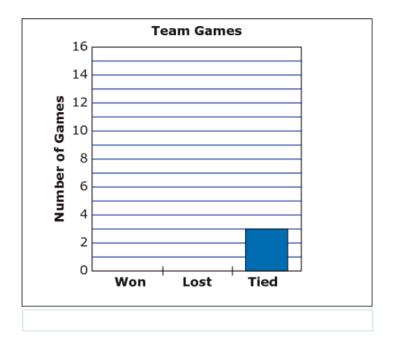
For partial credit (1 point), a student correctly places at least 3 paper clips.

572



Kelly's soccer team played 24 games. The team won exactly twice as many games as it lost. The team tied in 3 games.

Click above each label to create a bar graph showing how many games Kelly's team won and lost.



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

- a bar showing the correct number of games won, 14
 AND
- a bar showing the correct number of games lost, 7

For partial credit, a student earns 1 point for every correct value shown by a bar.

575



Which group of numbers lists factors of both 24 and 36?

- 2, 3, 4, 9
- ® 2, 3, 8, 12
- © 3, 6, 9, 18
- © 3, 4, 6, 12

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

• option D

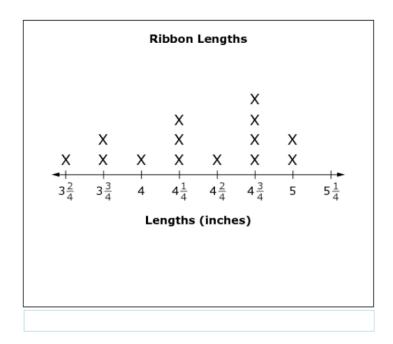
596



Maria measures the lengths of ribbons. She records the lengths on the line plot as shown.

She needs a total of 12 inches of ribbon.

Click three data points to create a combined length of 12 inches.



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

• 3 data points that sum to 12 inches

For example,

- $3\frac{2}{4}$, 4, and $4\frac{2}{4}$ OR $4\frac{3}{4}$, $3\frac{2}{4}$, and $3\frac{3}{4}$





Scott is reading a book that has 172 pages. Melanie is reading a book that has three times as many pages as Scott's book.

How many pages does Melanie's book have? Select all the equations that represent this problem.

172 ÷ 3 =	3 × = 172
172 × 3 =	÷ 3 = 172
÷ 172 = 3	172 ÷ = 3

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

- 172 × 3 = ? AND
- $? \div 3 = 172$
- $? \div 172 = 3$

For partial credit (1 point), the student selects 2 correct equations with no incorrect equations.



Marcia read books over the summer. She created the picture graph shown.

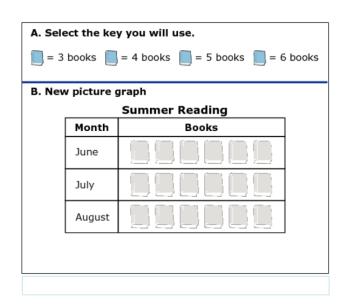
Summer Reading

Month	Books
June	
July	
August	999999



Create another picture graph that shows these data with a different key. You may use whole books and half books in your graph.

- A. Select the key you will use.
- B. Select books to complete your picture graph.



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

- selecting "4 books" AND
- the correct picture graph

