



**Moving toward Productive Talk:**

Step 1: Helping Individual Students Clarify and Share Their Own Thoughts

Step 2: Helping Students Orient to the Thinking of Others

Step 3: Helping Students Deepen Their Own Reasoning

Step 4: Helping Students Engage with the Reasoning of Others

**4<sup>th</sup> Grade Items**

**7**

Maya is building a tower with blocks.  
The table below shows the number and color of the blocks.

Blocks	
Color	Number
Red	25
Green	28
Blue	29
Yellow	24

- Maya builds a tower that uses 6 blocks for each level.
- Maya uses exactly 2 different colors.
- There are no blocks remaining of the 2 colors Maya uses.

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.

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.

**3**

**Part A**

Write one way that Joe and Sally could put an equal number of cookies into bags with fewer than 5 cookies per bag.

**4**

**Part B**

Write another way that Joe and Sally could put an equal number of cookies into bags with more than 5 cookies per bag.

**1**

Claim: To create a fraction greater than  $\frac{3}{7}$ , you have to make the denominator less than 7.

- A. Drag one number into each box to create a fraction greater than  $\frac{3}{7}$  with a denominator less than 7.
- B. Drag one number into each box to create a fraction greater than  $\frac{3}{7}$  with a denominator greater than 7.

**17**

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.

**5<sup>th</sup> Grade Items**

**20**

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.

**14**

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**



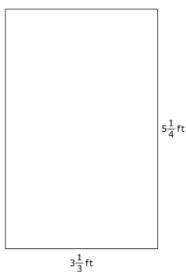
**B. Perimeter stays the same**



**C. Perimeter decreases**



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.



**3**

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