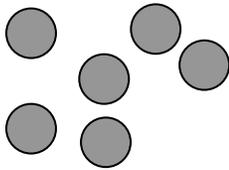


Find the Whole



1. What would the whole look like if the red trapezoid is:

- a) one third?
- b) three fourths?
- c) three halves?



2. What would the whole set look like if 6 counters are:

- a) one half of the set?
- b) two thirds of a set?
- c) three halves of a set?

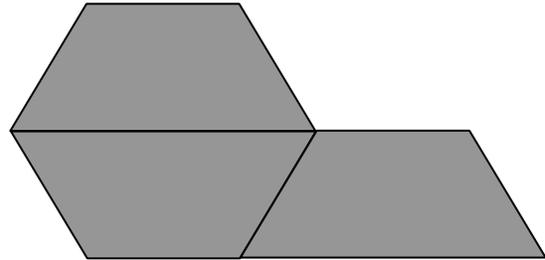


3. What would the whole look like if the purple Cuisenaire[®] Rod is:

- a) one half?
- b) two thirds?
- c) four thirds?

Solutions for Find the Whole

1a) If the red trapezoid is one third, then three red trapezoids would be the whole.



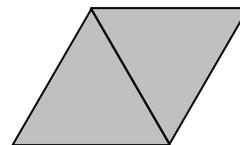
One red trapezoid is one third. The whole (three thirds) could be composed of 3 red trapezoids (arranged in any configuration), or any combination of pattern blocks that has the same area (e.g., a yellow hexagon and a red trapezoid).

1b) If the red trapezoid is three fourths, then a red trapezoid and a green triangle would be the whole.



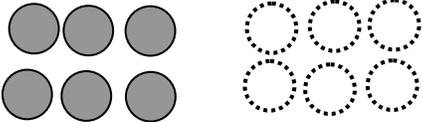
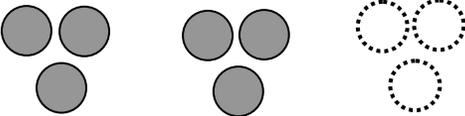
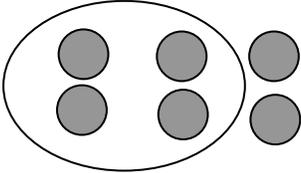
One red trapezoid is three fourths. A third of a red trapezoid (e.g., a green triangle) is one fourth. The whole (four fourths) could be composed of a red trapezoid and a green triangle (arranged in any configuration), or any combination of pattern blocks that has the same area (e.g., 4 green triangles).

1c) If the red trapezoid is three halves, then two green triangles or a blue rhombus would be the whole.



One red trapezoid is three halves. A third of a red trapezoid (e.g., a green triangle) is one half. The whole (two halves) could be composed of 2 green triangles or a blue rhombus.

Solutions for Find the Whole (continued)

| | |
|------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>2a) If 6 counters are one half of the set, then 12 counters are the whole set.</p> |  <p>If 6 counters are one half of the set, then the whole set (two halves) would be composed of 12 counters.</p> |
| <p>2b) If 6 counters are two thirds of the set, then 9 counters are the whole set.</p> |  <p>If 6 counters are two thirds of the set, then 3 counters are one third. The whole set (three thirds) would be composed of 9 counters.</p> |
| <p>2c) If 6 counters are three halves of the set, then 4 counters are the whole set.</p> |  <p>If 6 counters are three halves of the set, then 2 counters are one half. The whole set (two halves) would be composed of 4 counters.</p> |

Solutions for Find the Whole (continued)

| | |
|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>3a) If the purple rod is one half, then the brown rod is the whole.</p> | <div style="text-align: center;">  <p>2 purple rods</p>  <p>1 brown rod</p> </div> <p>If the purple rod is one half, then 2 purple rods (two halves) would be the whole. The brown rod has the same length as 2 purple rods.</p> |
| <p>3b) If the purple rod is two thirds, then the dark green rod is the whole.</p> | <div style="text-align: center;">  <p>1 purple rod</p>  <p>3 red rods</p>  <p>1 green rod</p> </div> <p>If the purple rod is two thirds, then half of the purple rod (the red rod) is one third. The dark green rod has the same length as 3 red rods (three thirds).</p> |
| <p>3c) If the purple rod is four thirds, then the light green rod is the whole.</p> | <div style="text-align: center;">  <p>1 purple rod</p>  <p>3 white rods</p>  <p>1 light green rod</p> </div> <p>If the purple rod is four thirds, then a fourth of the purple rod (the white rod) is one third. The dark green rod has the same length as 3 white rods (three thirds).</p> |