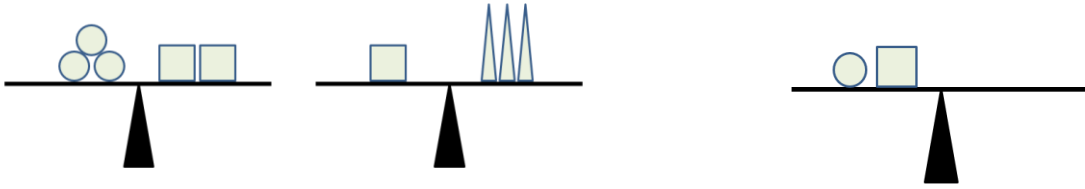
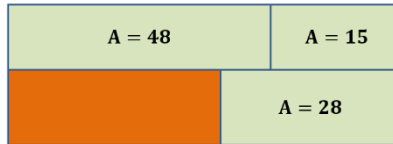


Problem Solving #1

1. How many triangles will balance one circle and one square?



2. The average age of a group of sports fans is 40. The average age of the females is 35 and the average age of the males is 50. What is the ratio of the number of females to males?
3. If the area of the large rectangle is 147 square units, what is the perimeter of the shaded region? Assume all dimensions are whole numbers.



4. A tow rope is cut in half and half is discarded. The other half is cut again at one third of the remaining length. The longer part is 10 meters. How long was the original tow rope?



5. Daunte spent two-thirds of his savings on a used car. He spent one-fourth of the remaining savings to buy a new cell phone. If the cell phone cost \$250, how much was his original savings?



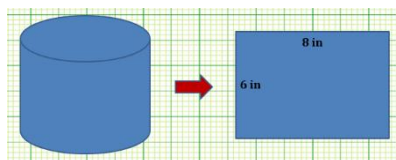
6. Suppose you need exactly 4 gallons of water but you only have a 3 gallon and 5 gallon container. How can you only use the 3 and 5 gallon containers to measure exactly 4 gallons of water?



7. Ramon goes to a fountain that delivers an unlimited amount of water. He brings 2 empty containers, one of 7 liters and one of 11 liters. Give the steps to obtain exactly 6 liters.



8. The top and bottom of a right circular cylinder are removed. The cylinder is flattened into a 6 by 8 inch rectangle as shown below. What was the can's volume?



Video Key

1. <http://youtu.be/-n-A5qcO398>
2. <http://youtu.be/GMZEt5Og9eU>
3. <http://youtu.be/UdjSVYwonHM> and <http://youtu.be/VeDq509tjUk>
4. <http://youtu.be/SRbcR2iu-1M>
5. http://youtu.be/_3ilsoVWEsQ
6. <https://www.youtube.com/watch?v=m7hyKXlwvm0>
7. <https://www.youtube.com/watch?v=XQI741zvKcl>
8. <https://www.youtube.com/watch?v=xSHYoPpYdVQ>

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