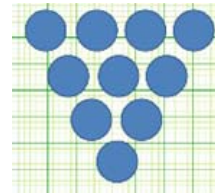
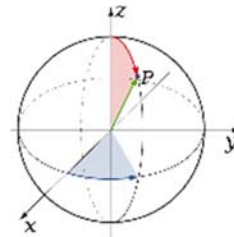


### Problem Solving #4

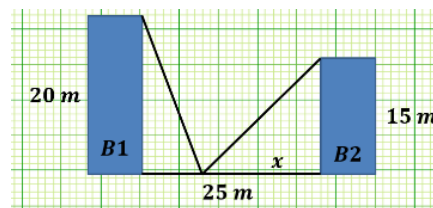
1. Reverse the direction of the triangle of coins by moving only 3 coins.



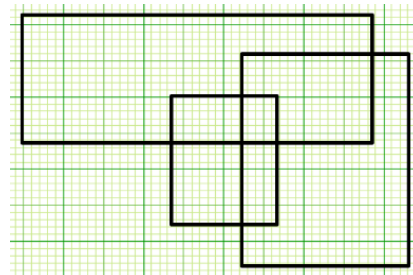
2. Find the volume of a sphere with  $r = \frac{3\sqrt[3]{16\pi^2}}{4\pi}$ . Hint:  $V = \frac{4}{3}\pi r^3$



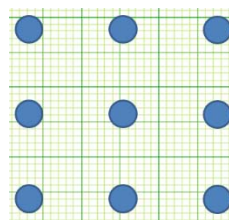
3. A car passes you going 15 miles per hour faster than your car. How many feet ahead of you will the car be in 5 minutes?
4. One car travels 65 mph and another car travels 55 mph. Assuming both cars keep the same constant speed, how much faster will the car travelling 65 mph travel 100 miles. Give the time to the nearest tenth of a minute.
5. Two birds fly off of the top of two different buildings at the same time and same speed. They reach a piece of bread on the ground at the same time. How many meters from the foot of building 2 is the piece of bread?



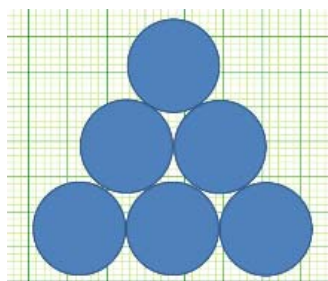
6. How many rectangles can you find?



7. Without lifting up your pencil, connect the 9 dots with 4 straight line segments.



8. Each circle has a radius of 5 cm. Find the height of the figure.



## Video Key

1. <https://www.youtube.com/watch?v=nk3CJdwiegk>
2. [http://youtu.be/z5peOH3\\_2uA](http://youtu.be/z5peOH3_2uA)
3. <http://youtu.be/9heRyEL1VfU>
4. <http://youtu.be/ICl4qr8MeYQ>
5. <http://youtu.be/1S1hK0-Lo0Q>
6. <http://youtu.be/lj56vll2rgo>
7. <http://youtu.be/XgngdrNNlgU>
8. <http://youtu.be/LWXFmcionxl>

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