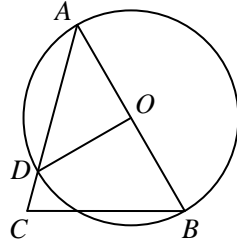


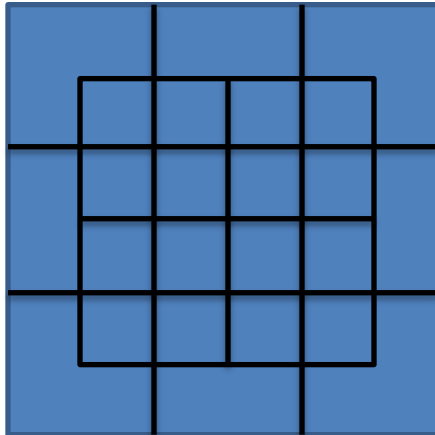
1. A man travels  $m$  feet due north at a rate of 4 minutes per mile. He returns due south to his starting point at a rate of 2 miles per minute. Find the average rate in miles per hour for the entire trip. (Show me the steps and solution on the paper)

2. In  $\triangle ABC$ ,  $AB$  is the diameter of the circle, the circle intersects  $AC$  at  $D$ .  
 $AB = 2\sqrt{2}$ ,  $\angle B = 60^\circ$ ,  $\angle C = 75^\circ$ . What is the degree of  $\angle BOD$ ? (Show me the steps and solution on the paper)



3. How many integers have a reciprocal that is greater than  $1/50.1$  and less than  $1/\pi$ .

4.



How many squares in this picture?