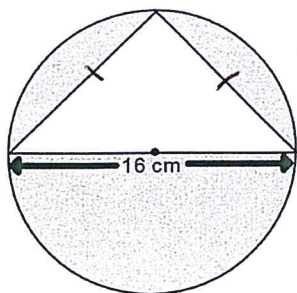


1. Find each probability as a fraction when you roll a pair of dice.

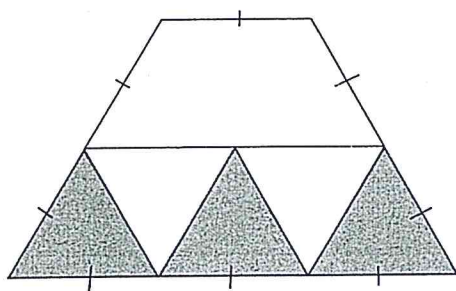
a) $P(\text{roll two odd \#s}) =$

b) $P(\text{sum of 8 and two even \#s}) =$

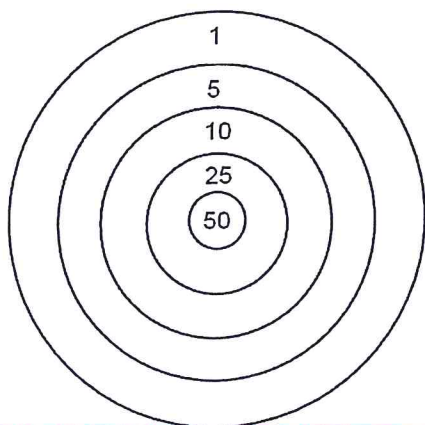
2. Find the probability of landing in the shaded region of the target. Give your answer as a percent rounded to the nearest hundredth.



3. Find the probability of landing in the shaded region of the target. Give your answer as a percent rounded to the nearest hundredth.



4. Use the target shown below. The bulls-eye has a radius of 2 cm. Each ring has a width of 2 cm. Find the probability that if a dart lands somewhere in the target that it will earn you 10 points. Give your answer as a percent rounded to the nearest hundredth.



1. Find each probability as a fraction when you roll a pair of dice.

a) P(roll two odd #'s) =

$$\frac{9}{36}$$

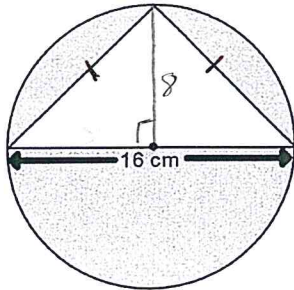
b) P(sum of 8 and two even #'s) =

$$\frac{3}{36}$$

1,1 3,1 5,1
1,3 3,3 5,3
1,5 3,5 5,5

2,6
6,2
4,4

2. Find the probability of landing in the shaded region of the target. Give your answer as a percent rounded to the nearest hundredth.

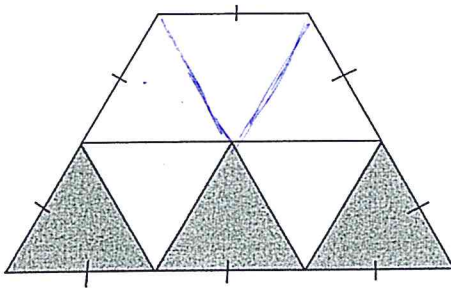


$$p(\text{shaded}) = \frac{\text{circle} - \Delta}{\text{CIRCLE}} = \frac{64\pi - 64}{64\pi} = 68.17\%$$

radius = 8
Area of circle = $\pi(8)^2$
 $= 64\pi$

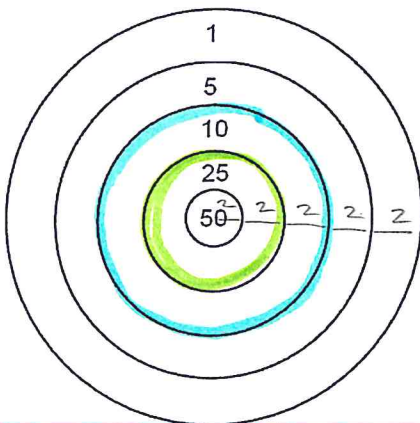
Area of $\Delta = \frac{1}{2}bh$
 $= \frac{1}{2}(16)(8)$
 $= 64$

3. Find the probability of landing in the shaded region of the target. Give your answer as a percent rounded to the nearest hundredth.



$$p(\text{shaded}) = \frac{\text{shaded pieces}}{\text{Total pieces}} = \frac{3}{4} = 75\%$$

4. Use the target shown below. The bulls-eye has a radius of 2 cm. Each ring has a width of 2 cm. Find the probability that if a dart lands somewhere in the target that it will earn you 10 points. Give your answer as a percent rounded to the nearest hundredth.



$$p(10\text{pts}) = \frac{\text{Area of 10 pt ring}}{\text{Area of Target}} = \frac{20\pi}{100\pi} = 20\%$$

Radius of Target = 10 cm
Area of Target
 $= \pi(10)^2 = 100\pi$

Area of 10 pt Ring
 $= \text{Blue circle} - \text{Green Circle}$
 $= \pi(6)^2 - \pi(4)^2$
 $= 36\pi - 16\pi = 20\pi$