



Notes: Mean is average,

Range = Biggest - Smallest

3. A sample of pupils were given a French vocabulary test and their results recorded.

The results are shown below.

6	3	7	9	5
4	5	7	8	6

- (a) Calculate the mean test score.  
(b) Calculate the range.

Each pupil was then given time to revise before sitting a similar vocabulary test.

In the second test, the mean was 8 and the range was 4.

- (c) Write two comments comparing the results in the first test compared to the results in the second test.

4. A short survey recorded the ages of the first 8 people to enter a library on a Monday morning at 9am.

The results, in years, are shown below.

25	58	78	50
57	64	40	4

- (a) Calculate the mean age of visitors.  
(b) Calculate the range of ages.

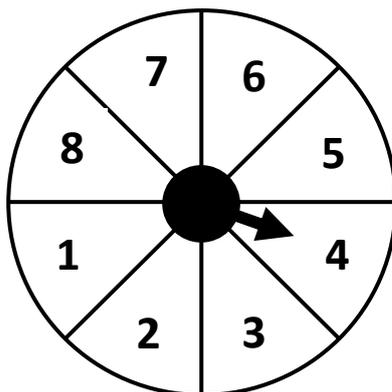
A second survey was taken of the first 8 people to enter the same library at 8pm on the same day.

In the second survey, the mean was 36 and the range was 20.

- (c) Write two comments comparing the results in the first survey compared to the results in the second survey.

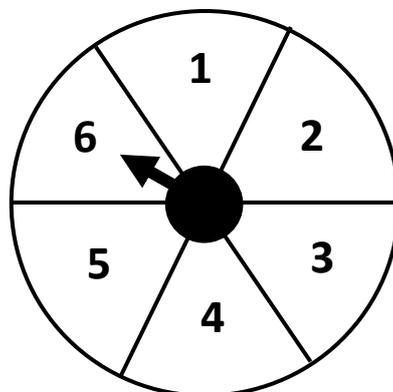
Note: Probability -  $\frac{\text{Number of Favourable Outcome}}{\text{Number of Possible Outcomes}}$

5. A spinner is spun.



What is the probability that the arrows stops on a number greater than 5?

6. A spinner is spun.



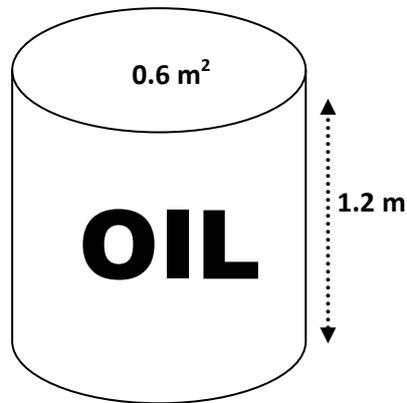
What is the probability that the arrow stops on a number less than 4.

Note: Volume = Cross Sectional Area x Height

7. An oil barrel is in the shape of a cylinder.

It has a base of area  $0.6 \text{ m}^2$  and a height of  $1.2 \text{ m}$ .

Calculate the volume of the barrel.



Calculate the volumes below:

