 WITH 1 ROLL OF A 20 SIDED DIE…

1. What are the odds of getting a result *greater than 13*?
2. What is the chance of getting a result that is an *even number less than 10*?
3. What is the probability of getting *either: a 5, 10 or 15*?
4. How many *favourable outcomes* could you expect if you rolled the die 37 times & wanted a result of higher than 16?
5. **Make up 2-3 other questions** using the 20 sided die.

** WITH 1 ROLL OF A 20 SIDED DIE…**

**ANSWERS**

1. $You can roll either a 14, 15, 16, 17, 18, 19 or 20.$

$\frac{7}{20}$ **= 0.35 = 35 %**

**⸫** The odds of getting a result *greater than 13* are 35%.

1. You can roll either a 2, 4, 6, or 8.

$\frac{4}{20}$ **=** $\frac{1}{5}$ **= 0.2 = 20 %**

**⸫** The chance of getting a result that is an *even number less than 10* is 20%.

1. **Probability =**

# of Favourable Outcomes divided by # of Possible Outcomes

$\frac{3}{20}$**= 0.15 = 15 %**

**⸫** The probability of getting either a *5, 10, or 15* is 15%.

1. You can roll either a 17, 18, 19, or 20.

Success rate x # of opportunities = **YOUR PREDICTION**

**(**$\frac{4}{20}$ **x 37) = 7.4 = ~ 7**

Or $\frac{4}{20}$ **= 0.2 (your success rate) so… 0.2 x 37 (attempts)**

**= 7.4 times you should expect getting a 17, 18, 19, or 20**

**⸫** You could expect around 7 favourable outcomes.