PROBABILITY

Name:

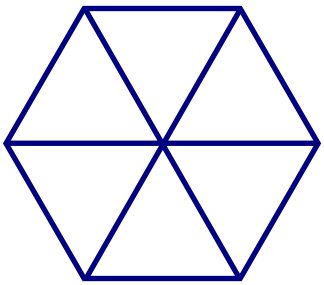
Assessment Criteria: Know that the sum of probabilities of all mutually exclusive outcomes is 1 and use this when solving problems

1. Complete the spinner such that:

$$P(\text{multiple of 2}) = \frac{1}{2}$$

and

$$P(\text{prime number}) = \frac{1}{2}$$



2. The probability of Joanna getting to school on time is $\frac{5}{7}$. What is the probability of Joanna NOT getting to school on time?

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3. Steven puts some discs in a bag. He will pull out one disc from the bag that will decide if he goes for a walk ( ), rides his bike ( ), goes to the gym ( ) or goes for a swim ( ). The probability of each occurring is:

Disc				
Probability	$\frac{1}{4}$		$\frac{1}{6}$	$\frac{1}{3}$

a) Fill in the probability of Steven riding his bike.

b) Which event is most likely to happen?

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c) Four discs had the symbol on them. How many discs had the symbol on them?

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4. The probability that a bus is early is 0.15. The probability that the bus is on time is $\frac{3}{10}$. What is the probability that the bus is late?

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Overall, I think my success level is:

Low ○ ○ ○ ○ High

Q	**PROBABILITY**	☺	☹
	I understand that the sum of mutually exclusive outcomes is 1		
	I understand and use that fact that P(not A) = 1 – P(A)		
	I can systematically find mutually exclusive outcomes		

I need to practise …