

M7 = 22 days to go!

2 (a) Fill in the next two terms of this sequence.

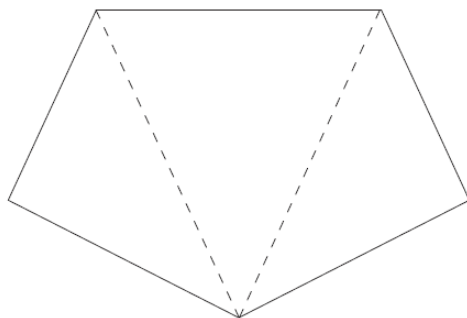
14, 13, 11, 8, , [2]

(b) Write down the name of the numbers in the sequence below.

1, 8, 27, 64, ...

Answer _____ [1]

8



(a) (i) What is the total of all the angles in the three triangles shown?

Answer _____ ° [1]

(ii) What is the sum of the interior angles of a five-sided polygon?

Answer _____ ° [1]

(b) What is the sum of the interior angles of a seven-sided polygon?

Answer _____ ° [2]

12 A six-sided dice is rolled 800 times.

The table below shows the relative frequency of scoring a six after different numbers of rolls.

Number of rolls	Relative frequency of a six
100	0.3
200	0.26
300	0.27
500	0.23
800	0.25

(a) How many times was a six scored after 300 rolls?

Show how you obtained your answer.

Answer _____ [2]

(b) Which relative frequency from the table gives the best estimate of the probability of scoring a six when this dice is rolled?

Explain your answer.

Answer _____

Reason _____ [2]

(c) How many sixes would you expect to get if a **fair** six-sided dice was rolled 300 times?

Answer _____ [2]