

M8 = 20 days to go!

2 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]

8 Change the recurring decimal $0.561561 \dots$ into a fraction in its simplest form.

Answer _____ [2]