## Find the predicted number of outcomes

Maths

Mrs Dennett

## Find the predicted number of outcomes

1. A bag contains these shapes.


A shape is chosen at random.
a) Find the following probabilities.
i) P (Black square)
ii) $P$ (Triangle)
iii) $P$ (Not white)
b) Ron says,
"If I choose a shape 300 times, $25 \%$ of them will be black squares."

Do you agree?
Explain your answer.

## Find the predicted number of outcomes

2. Mo and Rosie each flip a coin.

Mo flips his coin 20 times.
Rosie flips her coin 100 times.
How many times would you expect each of them to get heads?
3. Maisie rolls a fair dice 600 times.

How many times would you expect her to roll a 6?

Answers

## Find the predicted number of outcomes

1. A bag contains these shapes.


A shape is chosen at random.
a) Find the following probabilities.
i) P (Black square) $\frac{2}{15}$
ii) P (Triangle) $\frac{9}{15}$
iii) P(Not white) ${ }^{\frac{15}{15}} \frac{7}{15}$
b) Ron says,
"If I choose a shape 300 times, $25 \%$ of them will be black squares."

Do you agree?
Explain your answer.
No, the black squares do not represent $25 \%$ of the shapes.

## Find the predicted number of outcomes

2. Mo and Rosie each flip a coin.

Mo flips his coin 20 times.
Rosie flips her coin 100 times.
How many times would you expect each of them to get heads?

Mo 10 times
Rosie 50 times
because $P($ Head $)=\frac{1}{2}$ for a fair coin
3. Maisie rolls a fair dice 600 times.

How many times would you expect her to roll a 6?
$600 \times \frac{1}{6}=100$ times

