# Maths Assessment Year 3 

Statistics and Probability



## Maths Assessment Year 3: Statistics and Probability

1. Conduct chance experiments, identify and describe possible outcomes and recognise variation in results. (ACMSP067)

Name: $\square$
$\square$

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1. Write certain, likely, unlikely or impossible next to each statement.
a) The sky will turn green tomorrow morning. $\square$
b) The sun will set on Friday afternoon.

c) I will grow taller than an elephant.

d) We will have school holidays this year.

e) It might rain on the weekend.

2. Have a look at the spinner and answer the questions.
a) Which colour is the spinner most likely to land on?

b) Which two colours have the same chance of the spinner landing on them?

c) Is it more likely that the spinner will land on green than the yellow? Explain your answer.

3. Use the spinner above to answer the following true or false questions.
a) $\frac{1}{2}$ of the circle is green.

b) You are more likely to land on orange than blue.
c) $\frac{1}{4}$ of the circle is yellow.

d) Yellow has a more likely chance of being landed on than green. $\square$
e) Write the fraction of the colour yellow.

4. Have a look at the following box of marbles to answer the following questions.

a) How many marbles are there altogether? $\qquad$ .
b) How many marbles are blue? $\qquad$ out of $\qquad$ .
c) How many marbles are green? $\qquad$ out of $\qquad$ .
d) How many marbles are purple, orange and yellow? $\qquad$ out of $\qquad$ .
e) How many marbles are orange? $\qquad$ out of $\qquad$ .
f) What colour marble has the greatest chance of being pulled out of the box? Explain your answer.
$\qquad$
$\qquad$
$\qquad$
g) What colour marble has the least chance of being pulled out of the box? Explain your answer.
$\qquad$
$\qquad$
$\qquad$
h) If two purple marbles are taken out of the box, what is the chance now of pulling out a purple one? $\qquad$ out of $\qquad$ -.
5. Can you think of a possibility where:
a) An outcome is impossible: $\qquad$
b) An outcome is unlikely: $\qquad$
c) An outcome is likely:
d) An outcome is certain: $\qquad$


