

Probability

LO: To be able to give the probability of an event happening.

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1) Zone

2) The probability of picking a sweet out of a bag.

3) Practice questions.

4) The probability of other events.

5) Follow up work.

Blue Zone



Going slow

E.g. sad, sick, tired,
bored

Green Zone



Good to go

E.g. happy, calm,
focused, ok

Yellow Zone



Caution

Starting to lose control

E.g. worried, excited,
annoyed

Red Zone



Stop!

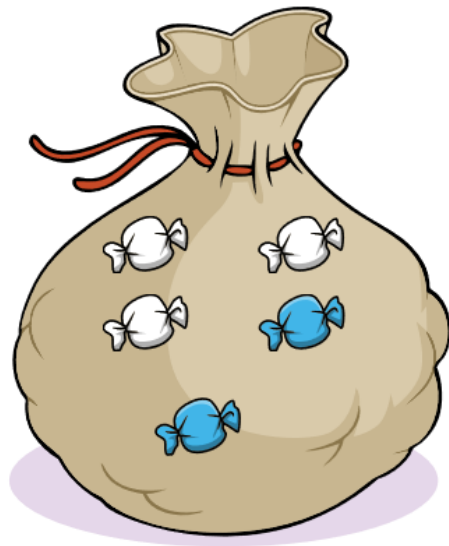
Out of control

E.g. angry, terrified,
elated

LO: To be able to give the probability of an event happening.

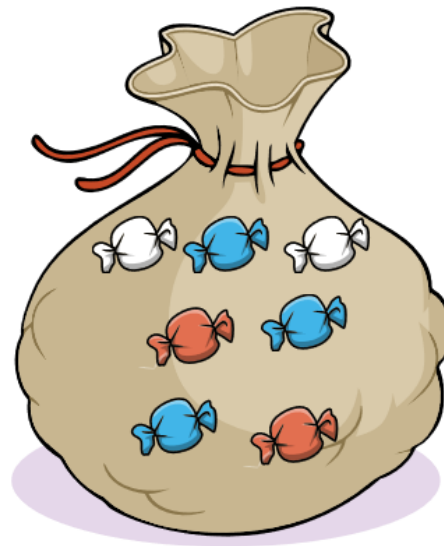
What is the probability of picking a sweet out of the bag?

What is the probability of getting each colour in these bags of sweets?



white =

blue =

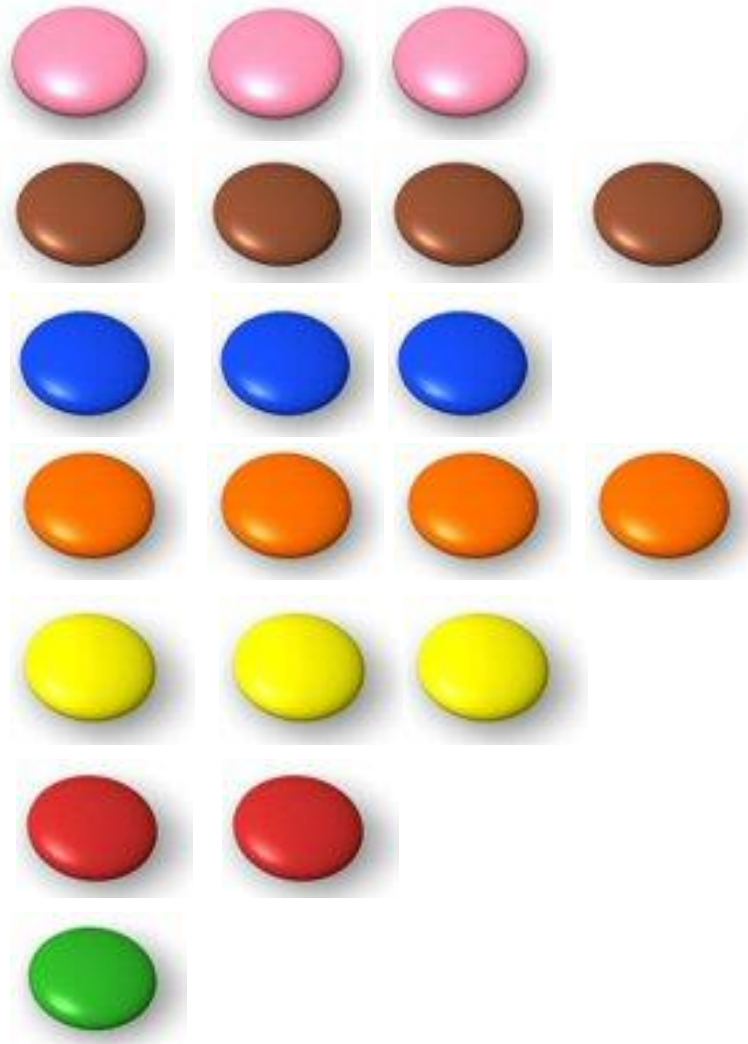


white =

blue =

red =





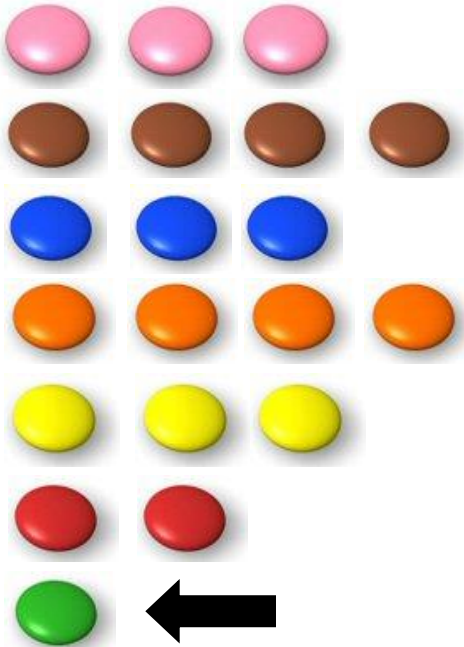
How many Smarties
are there altogether?

20



All the Smarties are put back in the tube.

If I pick a Smartie at random, what is the probability that it is green?



Number of green Smarties = 1

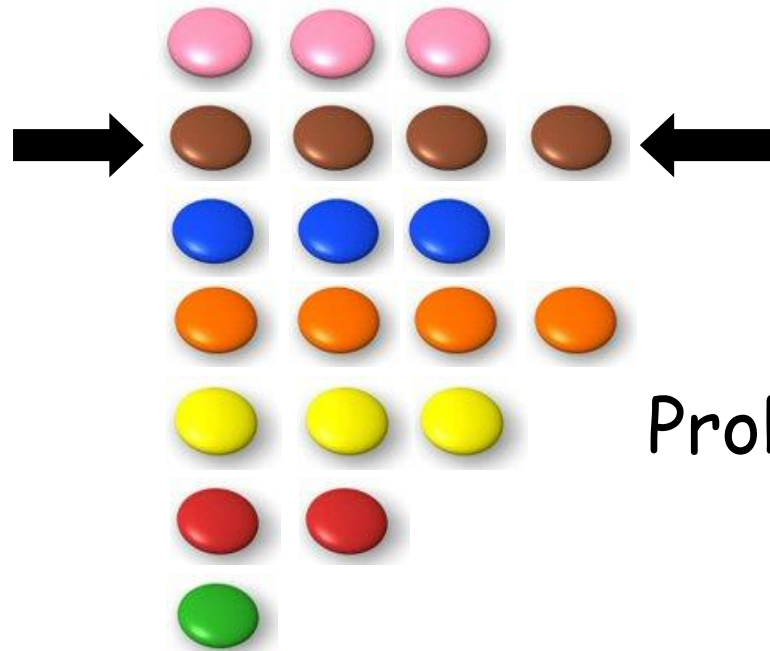
Total number of Smarties = 20

Probability of picking green = $\frac{1}{20}$



All the Smarties are in the tube.

If I pick a Smartie at random, what is the probability that it is brown?



Number of brown Smarties = 4

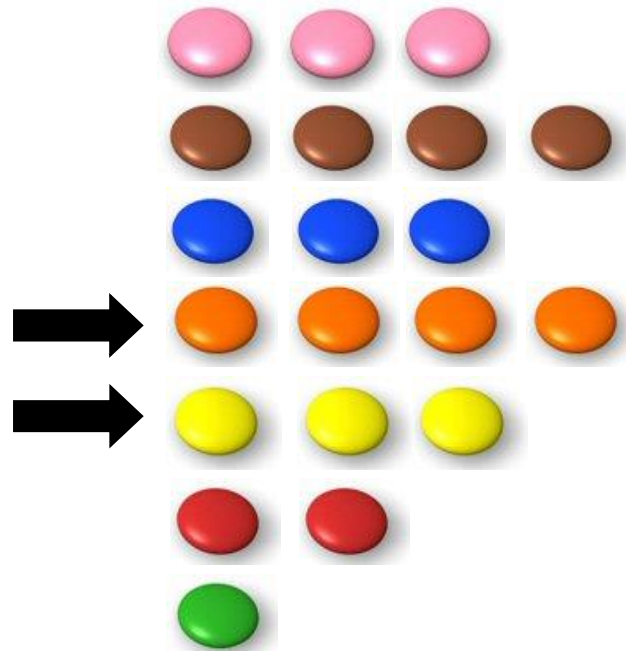
Total number of Smarties = 20

Probability of picking brown = $\frac{4}{20}$



All the Smarties are in the tube.

If I pick a Smartie at random, what is the probability that it is orange or yellow?



Number of orange
and yellow Smarties = 7

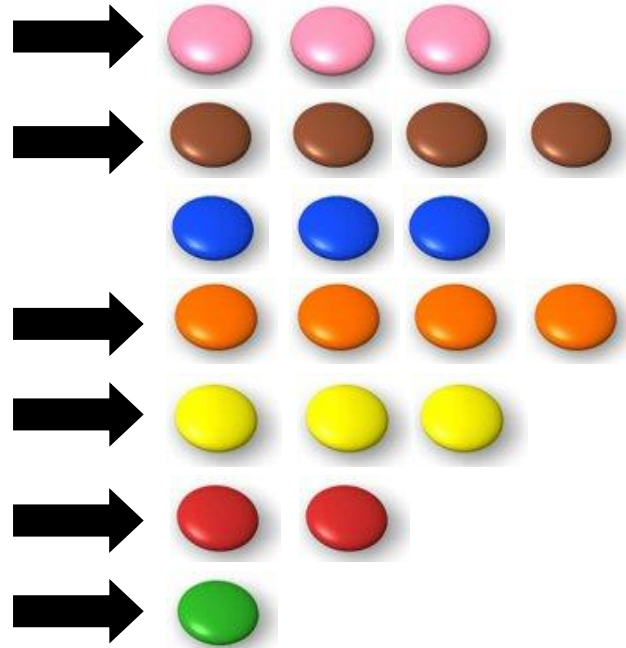
Total number of Smarties = 20

Probability of picking
orange or yellow = $\frac{7}{20}$



All the Smarties are in the tube.

If I pick a Smartie at random, what is the probability that it is not blue?



Number of not blue
Smarties = 17

Total number of Smarties = 20

Probability of not
picking blue = $\frac{17}{20}$

LO: To be able to give the probability of an event happening.

Match the marble jar to the probability fractions.

Choosing a
red marble

$$\frac{5}{12}$$

Choosing a
blue marble

$$\frac{8}{12}$$

Choosing a
red marble

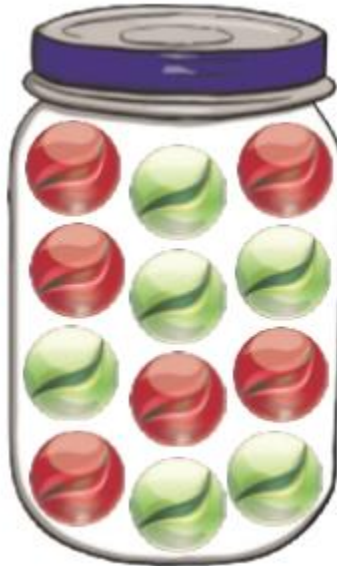
$$\frac{2}{12}$$

Choosing a
green marble

$$\frac{4}{12}$$

Choosing a
green marble

$$\frac{6}{12}$$



LO: To be able to give the probability of an event happening.

Match the marble jar to the probability fractions.

Choosing a
blue marble

$$\frac{7}{15}$$

Choosing a
red marble

$$\frac{6}{18}$$

Choosing a
green marble

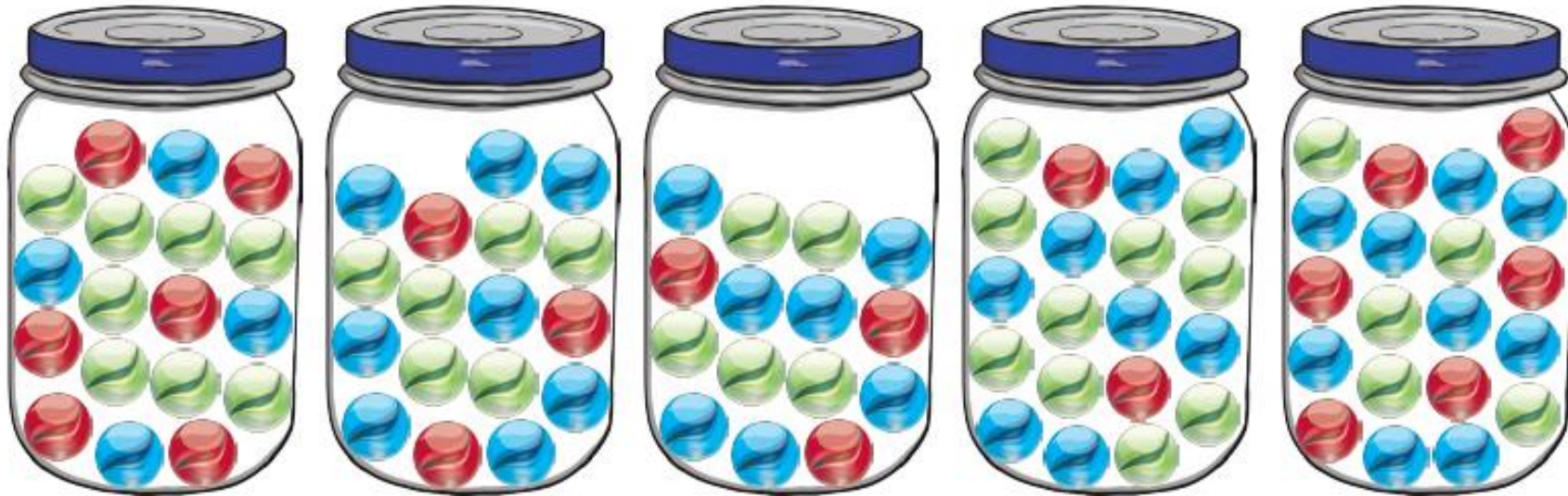
$$\frac{1}{2}$$

Choosing a
green marble

$$\frac{1}{4}$$

Choosing a
red marble

$$\frac{3}{17}$$



LO: To be able to give the probability of an event happening.

Writing pads are made in four different colours. In a box there are 3 blue, 10 red, 6 white and 5 green pads. What is the probability when I open the box I randomly pick a :-

- | | | |
|----------------|------------------|----------------|
| a). blue pad, | b). red pad, | c). white pad, |
| d). green pad, | e). yellow pad ? | |

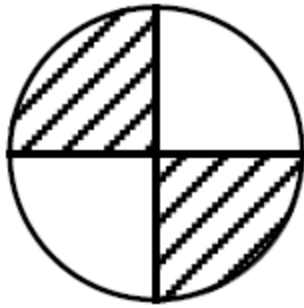
LO: To be able to give the probability of an event happening.

- 1). The following spinners are spun.
What is the probability of landing on the shaded section for each spinner ?

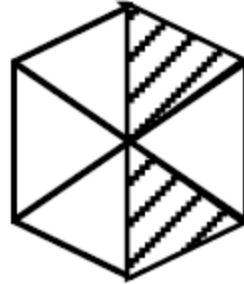
a).



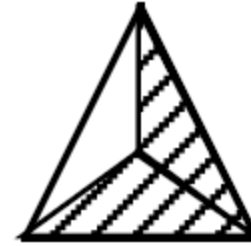
b).



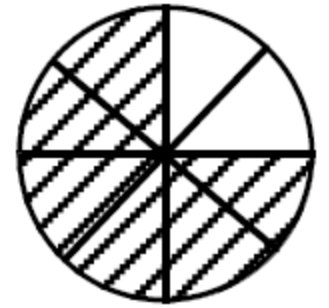
c).



d).

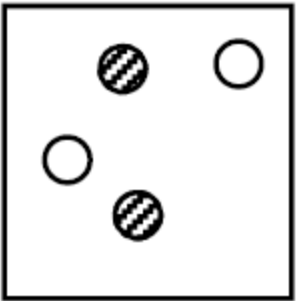


e).

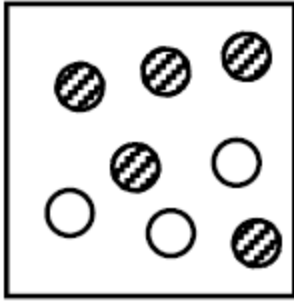


- 2). Counters are placed in a box. For each of the following boxes, find the probability of a shaded counter being drawn out of the box at random.

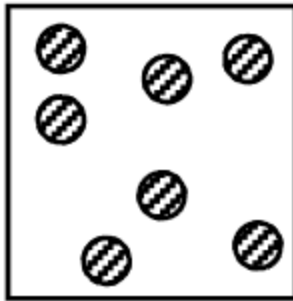
a).



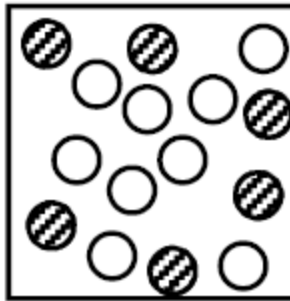
b).



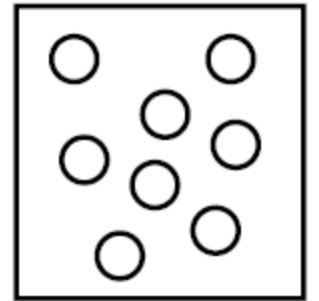
c).



d).



e).



LO: To be able to give the probability of an event happening.

There are 12 counters in a box numbered 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, and 12. If one counter is drawn out at random, what is the probability that it is a counter :-

- a). with an odd number, b). greater than 4,

LO: To be able to give the probability of an event happening.

From the word

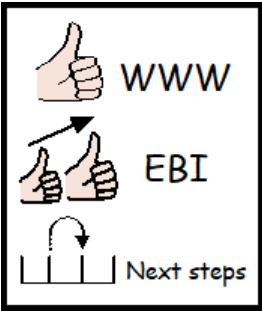
C H O C O L A T E

What is the probability of choosing

a) C

b) O

c) Vowel



WWW

LO: To be able to round to the nearest pound.

EBI

Next steps

WWW

EBI

Blue Zone



Going slow

E.g. sad, sick, tired,
bored

Green Zone



Good to go

E.g. happy, calm,
focused, ok

Yellow Zone



Caution

Starting to lose control

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annoyed

Red Zone



Stop!

Out of control

E.g. angry, terrified,
elated

LO: To be able to round sums of money.

Follow up work

1) 3 x Probability Worksheets

2) Investigation

For ALL worksheets you can either print out and write your answers on, or write your answers on paper.

Please take pictures of your work and email to jo.gould@grangepark.kent.sch.uk