## **Chapter 34 Chance pg178-182**

## **Monday pg178**

Chapte	er 34: C	hance – The	language of c	hance certain
(a) The pri (b) Your fr (c) Your fr (d) There v (e) The mo (f) The gra (g) A giraf	f the above wo ncipal will com iend will have o iend will have o will be no adve oon and sun wi ass on the footl fe will teach in	,	nce of the following happ day tonight ue colour	
both are <b>eq</b> called an <b>ev</b>	are two possib ually likely to en chance or	le outcomes and happen, this is a 50/50 chance.	Ariana has an even chance of picking the green cube.	
When I playing is a red	turn this card over it	I will choose a green cube.	Liam will catch the ball.	The arrow will stop on orange.
(a) We will (b) It will (c) Barcelo	f the above wo l win our next or rain next week.	possible  ords to predict the characteristics match.  Immed Madrid.  Ireland will be a girl.		even chance

(e) The River Lee will continue to flow through Cork City.

(f) If I throw a die, I will throw an even number.

# Tuesday pg179

## Chance – Probability

Po 'h  B  h  ev	possing a 'tail'? here are two possible outcomes – eads' or 'tails'. oth outcomes ave an equal or ven chance. here is a one in two chance.  1:2 or 1/2 or 50/50	throwing a 3?  • There are six possible outcomes  1 2 3 4 5 or 6.  • All outcomes have an equal chance.  • There is a one in six chance.  → 1:6 or 1/6
lf y	ou throw a regular 6-sided die, what is t	the chance of:
(a)	throwing a 2? : or	(b) throwing a 5? : or
(c)	throwing a 4? : or	(d) throwing a 0? : or
(e)	throwing an odd number? : or	(f) throwing a 9?: or
(-)	throwing a multiple of 3? : or	(h) throwing a multiple of 2?
We	measure the chance of something happening	g by using <b>probability</b> . We can place events on a
We prob	measure the chance of something happening ability line to illustrate this.  impossible  we move from left to right on this line, therefore the following statements on the appropriate the sun will set tonight.  impossible  even chance  certain	g by using probability. We can place events on a  n chance  certain  re is a greater likelihood of an event happening.  opriate part of the probability lines.  (b) Fuel prices will rise next year.  in impossible even chance certain
As Pld (a)	measure the chance of something happening ability line to illustrate this.  impossible  we move from left to right on this line, therefore the following statements on the approach the sun will set tonight.  impossible  even chance  certain	g by using probability. We can place events on a  n chance  certain  re is a greater likelihood of an event happening.  opriate part of the probability lines.  (b) Fuel prices will rise next year.  in impossible even chance certain  (d) School will close for a week in February.

### Wednesday pg180

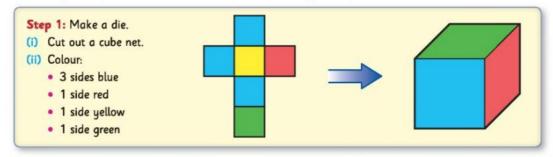
#### Chance

1. Aaron's uncle has promised to do one special activity with him next Saturday. He has suggested the following activities from which Aaron must choose. Aaron's uncle placed the activity names in a box. Aaron then had to choose an activity from the box while blindfolded. football swimming tennis archery (a) There is a \_\_\_\_ in \_\_\_ chance they will go swimming. (b) Write the probability of them going swimming as a fraction. (c) What is the probability of one of their activities involving a ball? (d) Write this probability as a fraction. (e) Imagine you were given the same five choices. Copy the following probability line into your copybook and place the activities on it in order, according to your preference. uninterested interested Six friends were arguing over how to spend their Saturday afternoon. They decided to each write their preference on a card. The cards were then placed in a jar. They all agreed that they would take part in the first activity to be chosen at random from the jar! (a) The chance of them going to the shopping centre is \_\_\_ (b) Write this probability as a fraction. chance that the friends will go to the cinema. (d) Express this probability as a fraction. (e) What is the probability that all these activities will be free of charge? \_\_\_\_\_ in \_ (f) What is the probability that they will not go to the cinema? \_\_\_\_\_ in \_\_\_ (g) What is the probability that they will go ice-skating? 3. Write the probability of picking a yellow cube from the following jars while blindfolded. (a) (d)

### Thursday + Friday pg181

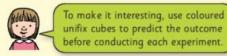
#### Chance

Here is a good experiment with which to explore probability with a partner.



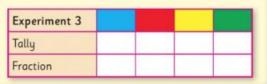
#### Step 2:

- (i) Throw the die 12 times.
- (ii) Use a tally to record which colour is facing up after each throw.
- (iii) Express each final result as a fraction of the number of throws.
- (iv) Repeat the experiment 2 more times. Record the results on these separate result charts.

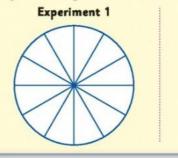


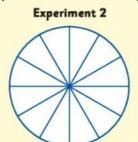
Experiment 1		
Tally		
Fraction		

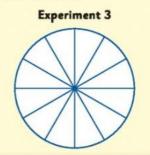
Experiment 2		
Tally		
Fraction		



Step 3: Record your results on these pie charts which are already divided into twelfths.







#### Think and discuss.

- Did all three experiments give the same results?
- Were your predictions close or accurate?
- · Can we rely on chance always going in our favour?

