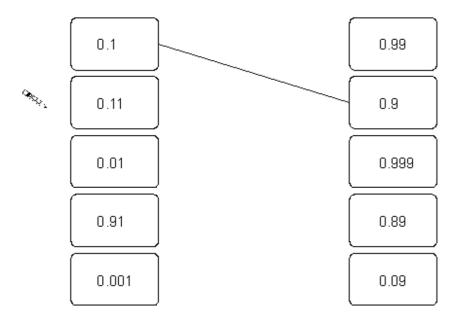
Making 1

1

(a) Join all the pairs of numbers that **add** together to equal **1**

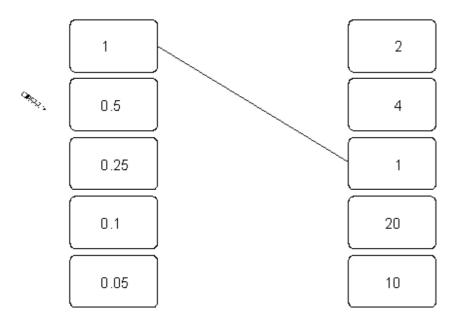
The first one is done for you.



2 marks

(b) Now join all the pairs of numbers that **multiply** to equal **1**

The first one is done for you.



2

Remainder

999 will divide exactly by 37

There is no remainder.

(a) Write down the remainder when **1000** is divided by 37

- (b) Write down the remainder when 998 is divided by 37
- (c) Write down a multiple of 37 that is bigger than 1000

Û.

Ŷ.

.....

.....

1 mark

1 mark

1 mark



Two-digit number

How many two-digit numbers have digits that add to twelve?

.....

4	(a)	Write the number 852 in words.						
	(b)	Round 852 to the nearest 10 Answer	1 mark 1 mark					
5	This	s is part of a number line.						
	0	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$						
	(a)	Which number on the line has the same value as 0.25?						
		Answer	1 mark					
	(b)							
	Answer							
	(c)	Mark on the number line the position of 1 $\frac{1}{3}$						
	(d)	Write as a decimal the number halfway between 0 and $\frac{1}{4}$	1 mark					
		Answer	1 mark					
			T mark					

6

A student measures the amount of rainfall, in centimetres, each day for five days.

Monday	Tuesday	Wednesday	Thursday	Friday
0.3	0.08	0.25	0.42	0.15

Answer _____ 1 mark (b) Which day had the most rain? Answer _____ 1 mark How many centimetres of rain fell during the five days altogether? (C) Answer _____ cm 2 marks (d) How many millimetres of rain fell during the five days altogether? Answer _____ mm 1 mark Which is bigger? $\frac{8}{5}$ or $1\frac{2}{5}$ You **must** show your working. Answer _____ 2 marks

Which day had the least rain?

(a)

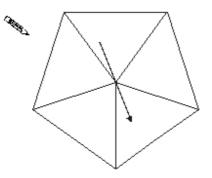
7

Spinners

8

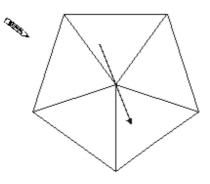
On each spinner write five numbers to make the statements correct.

It is certain that you will get a number less than 6



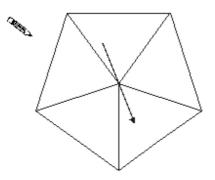
1 mark

It is **more likely** that you will get an **even** number than an **odd** number.



1 mark

It is impossible that you will get a multiple of 3



9

Puzzling out

A teacher has five number cards.

She says:

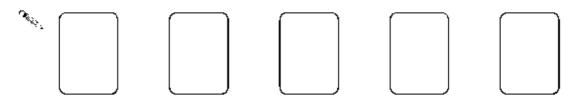
'I am going to take a card at random.

Each card shows a **different** positive whole number.

It is certain that the card will show a number less than 10

It is impossible that the card will show an even number.'

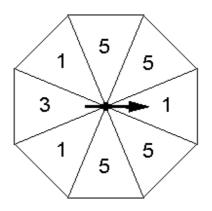
What numbers are on the cards



10

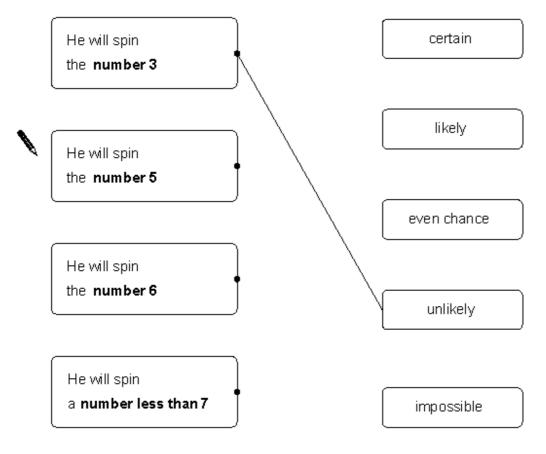
Spinner

Tom has a fair spinner with 8 equal sections. He is going to spin the pointer.



Draw lines to show how likely the following are.

One is done for you.



2 marks

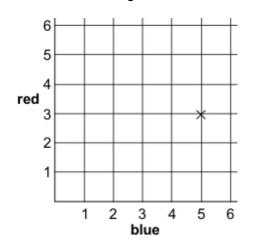
11

Throwing dice

Some pupils throw two fair six-sided dice. Each dice is numbered 1 to 6 One dice is blue. The other dice is red.

Anna's dice show blue 5, red 3 Her total score is 8

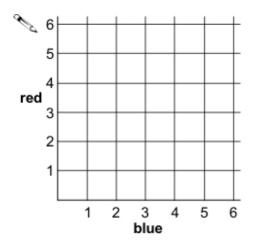
The cross on the grid shows her throw.



(a) Carl's total score is 6

What numbers could Carl's dice show?

Put crosses on the gird to show **all** the different pairs of numbers Carl's dice could show.

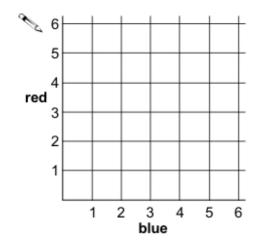


2 marks

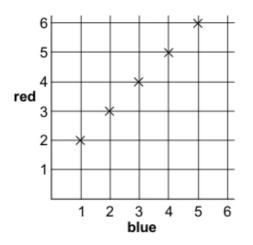
(b) The pupils play a game.

Winning rule:	Win a point if the number on the blue dice is
	the same as the number on the red dice.

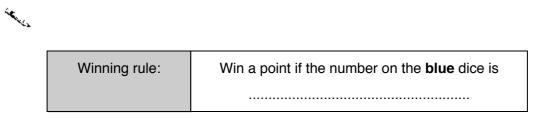
Put crosses on the grid to show all the different winning throws.



(c) The pupils play a different game. The grid shows all the different winning throws.



Complete the sentence below to show the winning rule.



1 mark

12

Throwing coins

I throw a fair coin.

For each statement below, put a tick (\checkmark) to show if the statement is **True** or **False**.

(a) On **each** throw, the probability of getting a head is $\frac{1}{2}$



Explain your answer.

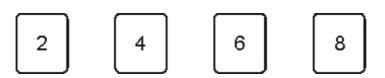
(b) On **four throws**, it is **certain** that I will get two heads and two tails.



Four cards

13

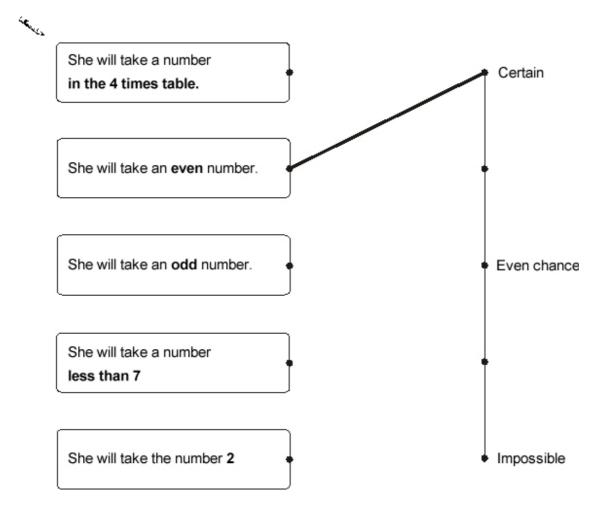
A pupil has these four number cards.



She is going to mix them up and take one card at random.

Match each statement to the correct position on the probability scale.

One is done for you.



14						
		am going to roll the dice.				
	(a)	What is the probability of rolling a multiple of 4 ?				
	*					
			1 mark			
	(b)	What is the probability of rolling a square number?				
	· • • • •					
			1 mark			
15	Rounding					
	(a)	Write the missing numbers in the sentences below.				
	()					
		2735 rounded to the nearest hundred is	1 mark			
		2735 rounded to the nearest thousand is				
		Variable 2/35 rounded to the nearest thousand is	1 mark			
	(b)	Give an example of what the missing number could be in the sentence below.				
		rounded to the nearest ten is 800				
			a			

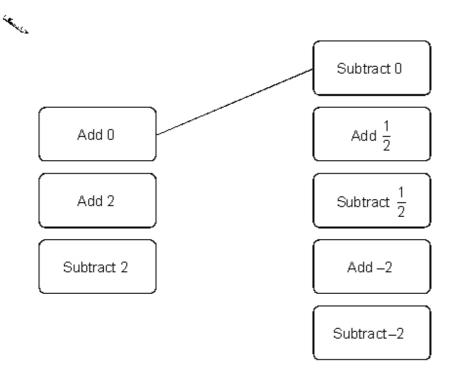
Matching

16

17

Match each instruction on the left with an instruction on the right that has the same effect.

The first one is done for you.



1 mark

(a) Every day a machine makes **500 000** drawing pins and puts them into boxes.

The machine needs **150** drawing pins to fill a box.

How many boxes can be filled with the 500 000 drawing pins?

🍾 boxes

(b) Each drawing pin is made from **0.23g** of metal.

How many drawing pins can be made from 1kg of metal?



..... drawing pins

2 marks

18

. .

19

The price of a coat is £65

In a sale the price is reduced by 15%

What is the sale price of the coat?

£

2 marks

UK population

In 2005, about 60.2 million people lived in the UK.

Look at the information about these people.

- 50.4 million lived in England.
- 5.1 million lived in Scotland.
- 3 million lived in Wales.
- The rest lived in Northern Ireland.

(a) In 2005, about how many people lived in Northern Ireland?

