

CRIME SCENE INVESTIGATION

Yesterday a terrible thing happened – the Easter bunny had all his chocolate eggs stolen!

The Easter Bunny needs your help to find out who stole his eggs – he needs them back before Easter. You must succeed or else there will be no Easter eggs this year.

The most likely suspects were gathered up and are shown below, one of these suspects committed the crime. Use the evidence on the following pages to find out which one.

			
Easter Bunnies Cousin	Cheeky Boy	Easter Chicken	Mrs Easter Bunny
			
Tooth-Fairy	Easter Duck	Chocolate Chef Charlie	Little red riding hood

THE EASTER POLICE HAVE FOUND FIVE CLUES WHICH CAN BE SEEN ON THE FOLLOWING PAGES.

AFTER YOU HAVE SOLVED EACH CLUE COME BACK HERE TO CROSS PEOPLE OFF THE SUSPECT LIST UNTIL YOU HAVE FOUND THE CRIMINAL.

HIDDEN MESSAGE

The thief left a note for the Easter bunny – however the message was encoded with a secret math code! The Easter bunny needs your help to crack the code.

Solve the problems, then fill in the message spaces with the letters that match the correct answers to read the secret message. This will let you cross off one person from the suspect list.

A 18 x 2 <hr/>	B 22 x 3 <hr/>	C 17 x 4 <hr/>	D 28 x 5 <hr/>	E 61 x 4 <hr/>	F 72 x 3 <hr/>	G 14 x 8 <hr/>
H 22 x 2 <hr/>	I 55 x 5 <hr/>	J 36 x 4 <hr/>	K 80 x 6 <hr/>	L 21 x 4 <hr/>	M 19 x 9 <hr/>	N 42 x 5 <hr/>
O 91 x 8 <hr/>	P 88 x 2 <hr/>	Q 76 x 7 <hr/>	R 35 x 8 <hr/>	S 12 x 3 <hr/>	T 54 x 3 <hr/>	U 56 x 6 <hr/>
V 46 x 4 <hr/>	W 35 x 7 <hr/>	X 47 x 2 <hr/>	Y 53 x 7 <hr/>	Z 26 x 6 <hr/>		

275

728

184

244

68

4

78

18

728

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36

162

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183

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275

162

728

728

720

162

44

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112

112

183

183

728

280

280

371

-

371

728

336

280

644

275

216

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44

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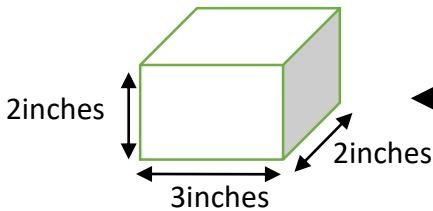
162

CROSS THIS PERSON OFF YOUR SUSPECT LIST.

WHEELING AWAY THE EGGS

A witness said they saw someone running away from the Easter Bunnies house with a large wheelbarrow full of Easter eggs! All the suspects have wheelbarrows, however it would have taken a large wheelbarrow to steal all the eggs – this means the suspect with the smallest wheelbarrow couldn't have committed the crime and can be crossed off the suspect list.

Calculate the volume of each suspects wheelbarrow and cross the suspect who has the wheelbarrow with the smallest volume off the suspect list.



To Calculate Volume = height x width x length
 e.g. 2 inches x 3 inches x 2 inches
 = 12 inches

CROSS OFF THE SUSPECT WHO HAS THE WHEELBARROW WITH THE SMALLEST VOLUME.

Easter Bunnies Cousin	Cheeky Brother	Easter Chicken	Mrs Easter Bunny
Volume = height x width x length Volume = 4 x 3 x 2 Volume =	Volume = height x width x length Volume = 7 x 1 x 2 Volume =	Vol = width x height x (A + B) ÷ 2 Vol = 2 x 2 x (3+3) ÷ 2 Vol =	Vol = width x height x (A + B) ÷ 2 Vol =
Tooth Fairy	Easter Duck	Chocolate Chef Charlie	Little Red Riding-Hood
Volume =	Volume =	Vol = <u>length x width x height</u> 3	Volume =

THE CHOCOLATE ZAPPER GUN

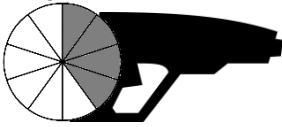

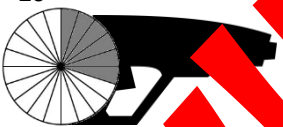



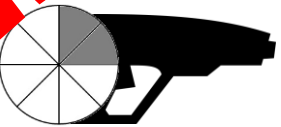







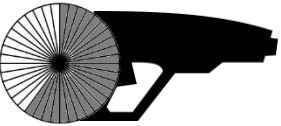
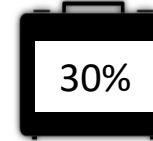
The chocolate eggs were stored in a special safe. The only way to get into the safe was to blast it open using a special chocolate zapper gun. All of the suspects had a chocolate zapper gun and a spare zapper cartridge. However to break into the egg safe would have used up a lot of zapper power. Calculate and combine the amount of zapper power in each suspects zapper gun and spare zapper cartridge. The suspect with the most amount of zapper fuel can be crossed off the suspect list as they couldn't have used their zapper.

Remember $\frac{1}{10} = 0.1 = 10\%$

Hint It might help to convert all the equations to decimals.

e.g. $\frac{1}{4} + 0.5 = 0.25 + 0.5 = 0.75$

CROSS THE SUSPECT OFF THE LIST WHO HAS THE MOST AMOUNT OF TOTAL ZAPPER CHARGE.
(Add the charge in the gun with the charge in the spare cartridge)

<p>Bunnies Cousin</p> <p>$\frac{4}{10}$ Charge in gun</p>  <p>Charge in cartridge</p>  <p>+</p> <p>Total Charge</p> <p>$\frac{4}{10} + 0.4 =$</p>	<p>Cheeky Boy</p> <p>$\frac{6}{20}$ Charge in gun</p>  <p>Charge in cartridge</p>  <p>+</p> <p>Total Charge</p> <p>$\frac{6}{20} + 0.4 =$</p>	<p>Eastwick</p> <p>$\frac{3}{30}$ Charge in gun</p>  <p>Charge in cartridge</p>  <p>+</p> <p>Total Charge</p> <p>$\frac{3}{30} + 0.25 =$</p>	<p>Mrs Easter Bunny</p> <p>$\frac{1}{8}$ Charge in gun</p>  <p>Charge in cartridge</p>  <p>+</p> <p>Total Charge</p> <p>$\frac{1}{8} + 0.3 =$</p>
<p>Bothery</p> <p>$\frac{1}{3}$ Charge in gun</p>  <p>Charge in cartridge</p>  <p>+</p> <p>Total Charge</p> <p>$\frac{1}{3} + 33\% =$</p>	<p>Easter Duck</p> <p>$\frac{3}{10}$ Charge in gun</p>  <p>Charge in cartridge</p>  <p>+</p> <p>Total Charge</p> <p>$\frac{3}{10} + 20\% =$</p>	<p>Chef Charlie</p> <p>$\frac{2}{5}$ Charge in gun</p>  <p>Charge in cartridge</p>  <p>+</p> <p>Total Charge</p> <p>$\frac{2}{5} + 30\% =$</p>	<p>Red Riding-Hood</p> <p>$\frac{24}{40}$ Charge in gun</p>  <p>Charge in cartridge</p>  <p>+</p> <p>Total Charge</p> <p>$\frac{24}{40} + 30\% =$</p>

Shade in the amount of charge in each suspects zapper.

Cross off the suspect with the most amount of total zapper charge.

EATING THE EASTER-EGGS

The Easter bunny is generous and every year he gives out easter-eggs to his friends. He had given all the suspects eggs so they can give them to their children. They all divided their eggs up between their children, however some of the suspects felt ripped off because they got less eggs per child. The two suspects with the largest number of eggs per child can be crossed off the suspect list as they wouldn't have felt ripped of or need to steal any more eggs.

WORK OUT HOW MANY EGGS EACH SUSPECT HAS LEFT. CROSS OFF THE TWO SUSPECTS WITH THE MOST AMOUNT OF EASTER EGGS PER CHILD.

	Bunnies Cousin
Eggs given	128
Number of children	8
Eggs Per Child	_____

	Cheeky Boy
Eggs given	126
Number of children	6
Eggs Per Child	_____

	Easter Chicken
Eggs given	8
Number of children	4
Eggs Per Child	_____

	Mrs Easter Bunny
Eggs given	126
Number of children	7
Eggs Per Child	_____

	Tom Henry
Eggs given	95
Number of children	5
Eggs Per Child	_____

	Easter Duck
Eggs given	132
Number of children	6
Eggs Per Child	_____

	Chef Charlie
Eggs given	63
Number of children	3
Eggs Per Child	_____

	Red Riding-Hood
Eggs given	153
Number of children	9
Eggs Per Child	_____

FIND THE TOTAL AMOUNT OF EGGS PER CHILD EACH SUSPECT HAS .
CROSS THE TWO SUSPECTS WITH THE MOST AMOUNT OF EGGS PER CHILD OFF THE SUSPECT LIST.

TRAVEL TIME

The Easter police had been monitoring each suspects house. On the day of the crime they know when each suspect left their house and when they returned. They have found out how fast each suspect walks and how far away their houses are from where the eggs were. Using this information the police think they can work out which suspects would have had enough time to get to the eggs and back.

WORK OUT THE TOTAL TIME EACH SUSPECT WAS AWAY FROM THEIR HOUSE. LOOK AT THE MAP TO SEE HOW FAST EACH SUSPECT WALKS AND HOW FAR AWAY THEIR HOUSE IS FROM THE EGGS.

CROSS OFF ANY SUSPECT WHO WOULDN'T HAVE HAD ENOUGH TIME TO GET TO THE EGGS AND BACK.

Divide distance by speed to find out how long it takes for the suspect to go to the eggs and back.

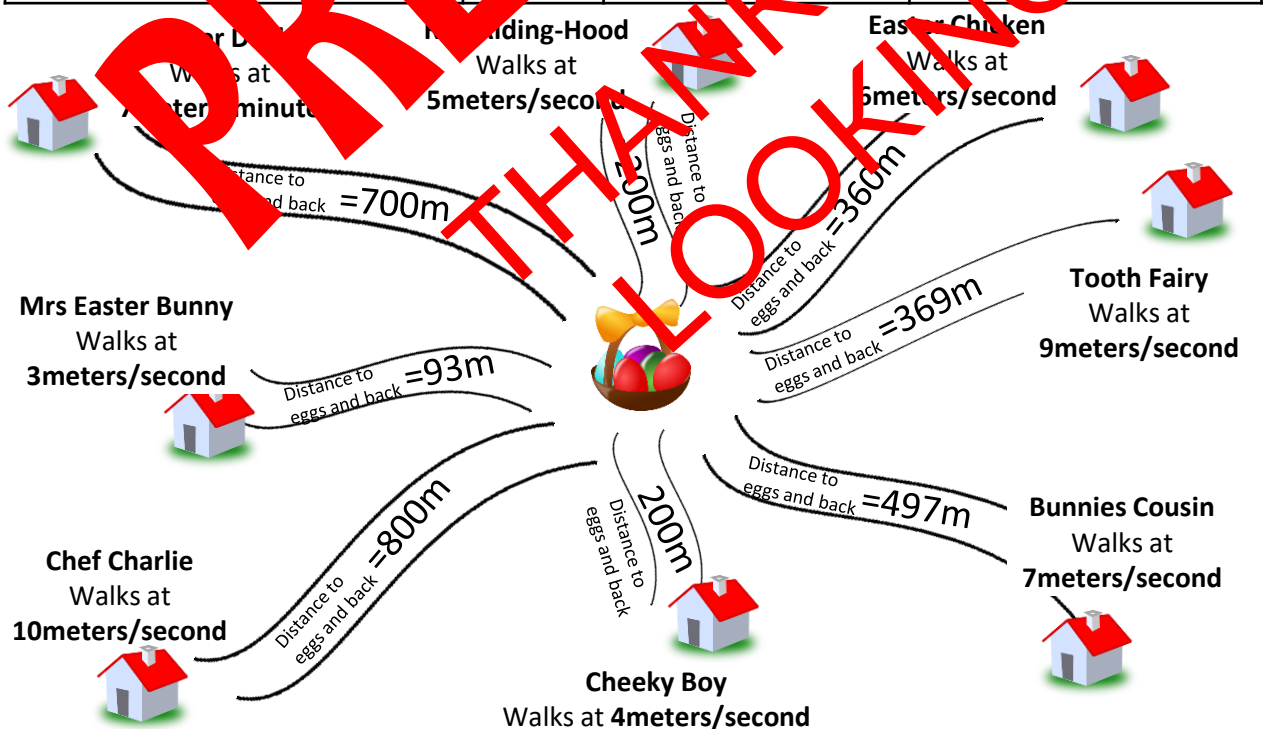
e.g. – The time taken for this man to walk 100m is 50min
 $100 \div 2 = 50\text{mins}$



100m



Suspect	Time to walk to eggs	Time left house	Time returned home	Total time away from house	Do they have enough time to commit crime?
Easter Duck	$700\text{m} \div 7 = 100\text{mins}$	8:30am	10:00am	120mins	YES (120MIN) it only takes 100mins to go to the eggs and back.
Red Riding-Hood	$200 \div 5 =$	10:03am	10:05am		
Easter Chicken		9:20am	10:28am		
Mrs Easter Bunny		9:50am	10:00am		
Tooth Fairy		10:05am	11:20am		
Chef Charlie		10:45am	11:55am		
Cheeky Boy		9:20am	10:13am		
Bunnies Cousin		10:00am	11:45am		



PREVIEW THANKS FOR LOOKING!

THE POWER OF THE EGGS

You found the suspect and all the missing Easter eggs – congratulations! However, the Easter bunny needs to arrange his eggs in the correct way in his basket to release their magical power. If he arranges the eggs in the correct way time slows down which allows him to visit every child during Easter day. Can you help him???

DIRECTIONS: Fill in each circle with a number (Easter egg) from the number bank. Each number can only be used once. The three circles which connect to the middle star must have numbers which add up to the middle number (35).



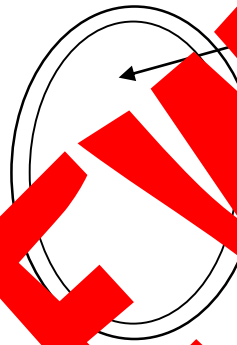
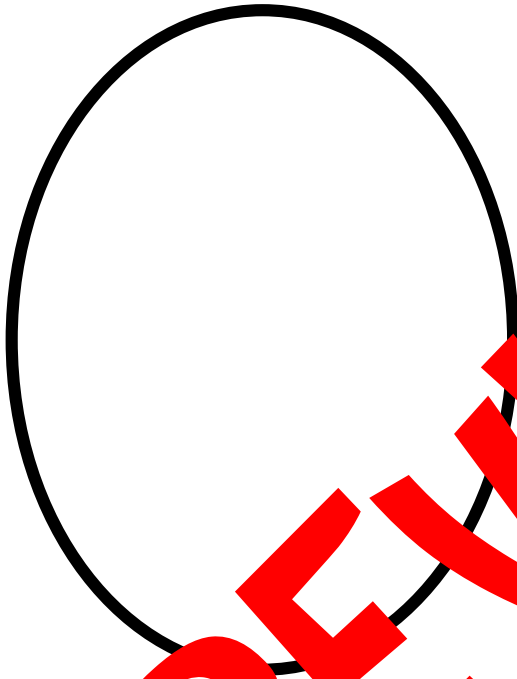
EASTER EGG NUMBER BANK

13	11	10	7	9
8	14	6	18	12

DESIGN YOUR EASTER EGG

EASTER EGG NAME: _____

Color in your Easter egg wrapping

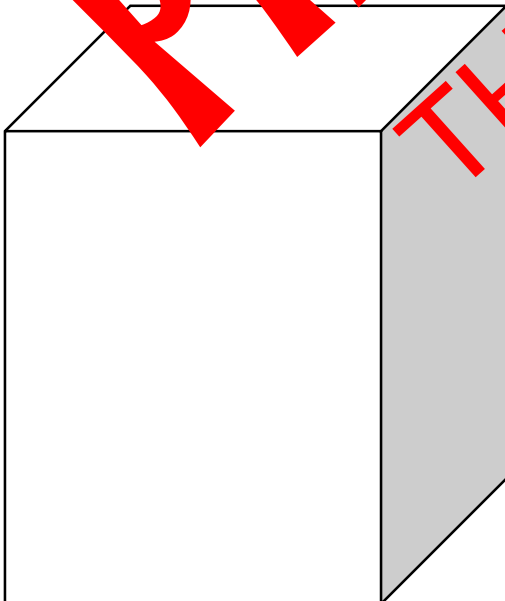


What's inside your egg?

Type of Chocolate: _____

Write a jingle, song, or advert to promote your egg to shoppers

Design how you want your Easter egg to look in



PREVIEW
THANKS FOR
LOOKING!