

CRIME SCENE INVESTIGATION

Yesterday a terrible thing happened – Santa's sleigh was stolen!

Santa needs your help to find out who stole his sleigh – he needs it back before Christmas. You must succeed or else there will be no Christmas 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.

			
RUDOLPH	GINGERBREAD MAN	SANTA'S ELF	MRS CLAWS
			
FROSTY	CHRISTMAS GHOST	PENGUIN PAUL	CHRISTMAS BEAR

THE POLICE HAVE FOUND FOUR 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

At the scene of the crime Santa found a note with a hidden math message.

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 4X5 _____	B 3X2 _____	C 7X2 _____	D 4X3 _____	E 5X5 _____	F 9X3 _____	G 6X4 _____
H 8X2 _____	I 7X3 _____	J 4X8 _____	K 5X6 _____	L 7X8 _____	M 6X3 _____	N 8X5 _____
O 9X6 _____	P 6X6 _____	Q 7X9 _____	R 2X8 _____	S 3X3 _____	T 9X9 _____	U 3X5 _____
V 8X8 _____	W 2X2 _____	X 6X8 _____	Y 9X10 _____	Z 4X7 _____		

PREVIEW

9 54 8 21 8 54 0 81 16 25

9 56 25 32 24 16 21 40 25 25 12 25 12 21 81

8 15 12 54 56 36 16 16 20 12 40 54 81 16 21 40 24

81 54 12 54 4 21 81 16 21 81

CROSS THIS PERSON OFF YOUR SUSPECT LIST.

MAGIC TO FLY

The sleigh requires magic to fly. Whoever stole the sleigh must have had enough magic power to get it flying. None of the suspects has any magic power within them – however they all have magic objects which could be used to make it fly. Each magic object has magic points and the sleigh requires at least 30 magic points to fly.

Cross off any suspect who has a total of less than 30 magic points off the suspect list.

Magic lollipop 1 magic point	Candy Cane 2 magic points	Magic cookie 3 magic points	Toy 4 magic points	Magic coat 5 magic points
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Hint: To calculate magic points multiply number of object by amount of magic points it has.
e.g. Three candy canes = $3 \times 2 = 6$ magic points.

Rudolph had:

9 magic lollipops = _____ magic points

5 magic cookies = _____ magic points

2 magic coats = _____ magic points

Total magic points _____

Gingerbread Man had:

5 candy canes = _____ magic points

2 magic cookies = _____ magic points

4 toys = _____ magic points

Total magic points _____

Santa's Elf had:

7 magic lollipops = _____ magic points

2 candy canes = _____ magic points

3 magic coats = _____ magic points

Total magic points _____

Mrs Claws had:

1 magic cookie = _____ magic points

7 toys = _____ magic points

4 magic coats = _____ magic points

Total magic points _____

Frosty had:

8 candy canes = _____ magic points

4 magic cookies = _____ magic points

2 toys = _____ magic points

Total magic points _____

Christmas Ghost had:

13 magic lollipops = _____ magic points

3 candy canes = _____ magic points

3 magic cookies = _____ magic points

Total magic points _____

Penguin Paul had:

5 magic lollipops = _____ magic points

3 magic cookies = _____ magic points

2 toys = _____ magic points

1 magic coat = _____ magic points

Total magic points _____

Christmas Bear had:

8 magic lollipops = _____ magic points

3 magic cookies = _____ magic points

6 toys = _____ magic points

2 magic coat = _____ magic points


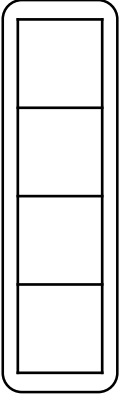

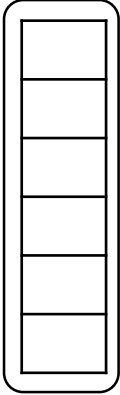

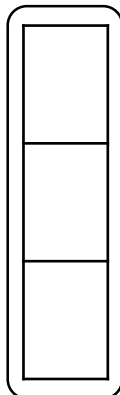

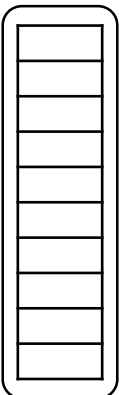

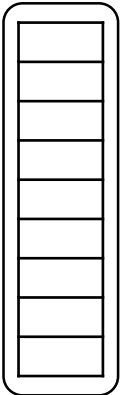

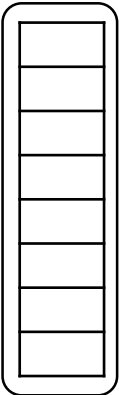

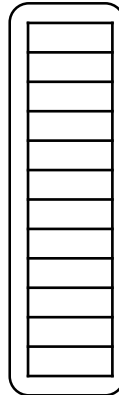

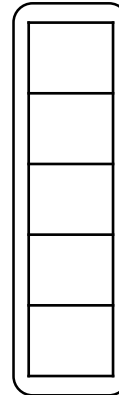
Total magic points _____

Cross off any suspect who has less than 30 magic points off the suspect list.

Fractions – Snowmobile Fuel

All the residents of North Pole use snow mobiles to get around. Santa keeps his sleigh in a cave far away from the other residents of North Pole. The person who stole the sleigh would have used up a lot of petrol/gas in their snowmobile so any suspect with a lot of gas in their tank can be taken off the suspect list.

CROSS THE SUSPECT OFF THE LIST WHO HAS THE MOST AMOUNT OF FUEL LEFT IN THEIR SNOWMOBILE.

Rudolph $\frac{2}{4}$ Fuel left in tank	Gingerbread Man $\frac{4}{6}$ Fuel left in tank	Santa's Elf $\frac{2}{3}$ Fuel left in tank	Mrs Claws $\frac{6}{10}$ Fuel left in tank
 	 	 	 
Frosty $\frac{7}{9}$ Fuel left in tank	Christmas Ghost $\frac{4}{8}$ Fuel left in tank	Penguin Paul $\frac{7}{12}$ Fuel left in tank	Christmas Bear $\frac{3}{5}$ Fuel left in tank
 	 	 	 

Shade in the amount of fuel each suspect has left in their snowmobile.
 Cross off the suspect with the most amount of fuel left in their tank.

BRIBE THE GUARD

The guard who looked after the sleigh vanished after the sleigh was stolen. It was found that the sleigh thief paid the guard a bribe to help them with the robbery. The sleigh thief must therefore have a lot of spare money. The **two** suspects with the least amount of money wouldn't have had enough to bribe the guard so can be crossed off the suspect list.

CROSS OFF THE **TWO** SUSPECTS WITH THE LEAST AMOUNT OF TOTAL MONEY

	Money in Bank	Cash in Wallet	Cash in Piggy Bank	Total money
Rudolph	\$110.50	\$30	\$47.20	
Gingerbread Man	\$120.10	\$25.75	\$16.50	
Santa's Elf	\$80.75	\$75.20	\$39.60	
Mrs Claw	\$95.80	\$103	\$42.40	
Frosty	\$145.20	\$64.75	\$9.50	
Christmas Ghost	\$104.85	\$28.20	\$31.05	
Penguin Paul	\$173.65	\$8.40	\$13.80	
Christmas Bear	\$65.40	\$35.05	\$12.40	

**FIND THE TOTAL AMOUNT OF MONEY EACH SUSPECT HAS.
CROSS THE TWO SUSPECTS WITH THE LEAST AMOUNT OF MONEY
OFF THE SUSPECT LIST.**

