

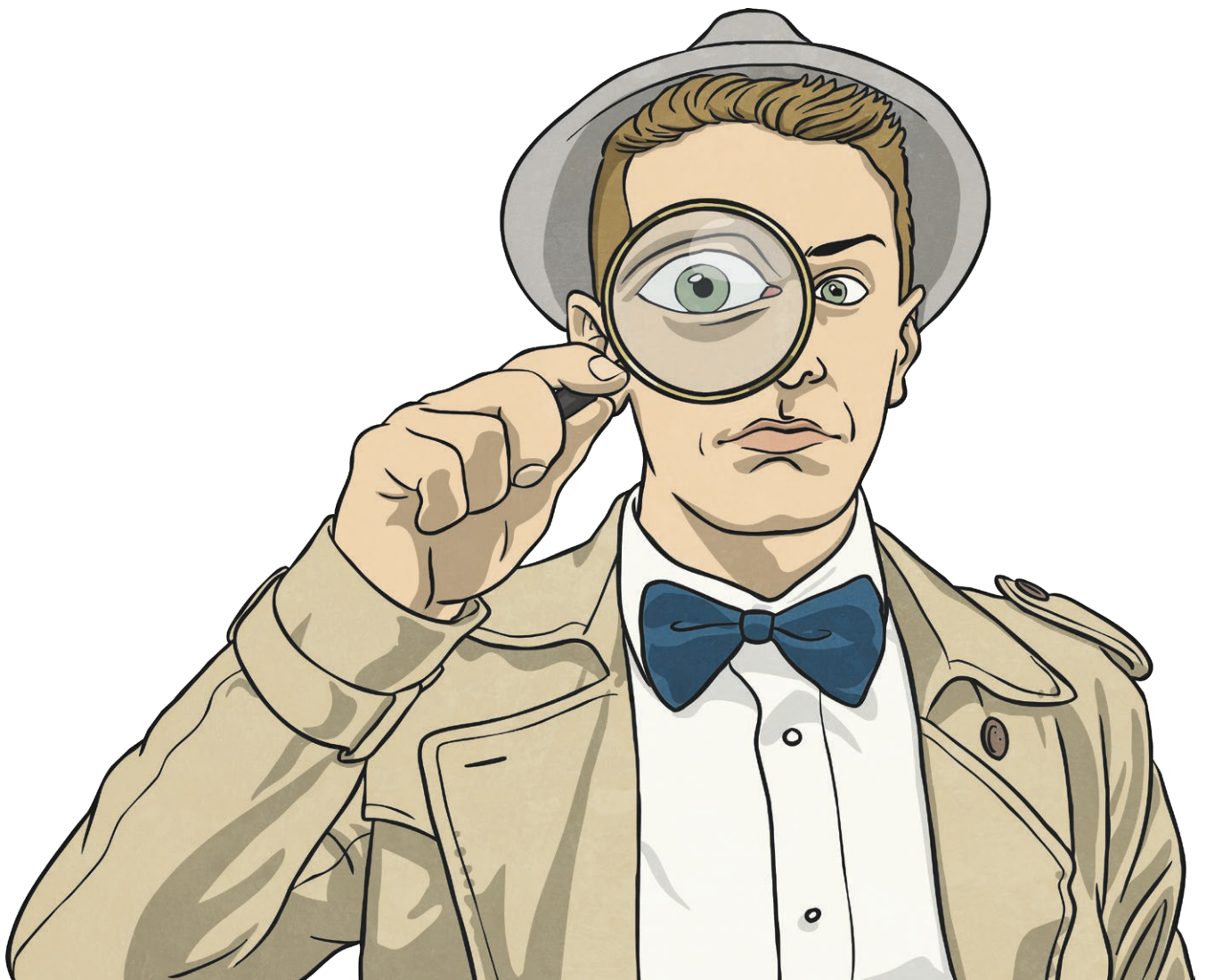
The Place Value Mystery of the Thief at Gideon Gold's Chocolate Factory

Good evening. You join us here at the scene of the crime in Little Hadfield, at the factory of Gideon Gold where the exclusive chocolates Delectable Dream Drops are created. Forensic police are investigating how this appalling crime has happened, and are taking down the descriptions of suspects and taking statements, as we speak!

At around 1.30a.m. on Tuesday, someone broke into the factory and took the plans from the highly secure safe. Each member has had to sign a contract of secrecy and no one is allowed to be alone in the presence of the plans!

The suspect is an employee of Gold Chocolatiers Ltd. and must be found as soon as possible, before the plans are sold to rival companies!

Your task is to solve the clues and use the descriptions of the suspects to unmask the safe-cracker!



The Place Value Mystery of the Thief at Gideon Gold's Chocolate Factory

Name	M/F	Job in the Factory	Wears a Hat	Transport to Work	Size Shoe
Ashael Able	m	packing	yes	car	7
Betsy Browne	f	taste tester	yes	car	4
Chi Chew	m	marketing	no	car	8
Dabinn Dray	f	production	yes	walks	6
Eben Emanuel	m	team leader	sometimes	cycles	10
Florence Flame	f	packing	yes	car	7
Gabriel Green	m	marketing	no	car	7
Horatio Hound	m	production	yes	bus	8
Isabella Isaac	f	packing	yes	car	7
Joss Jerry	f	production	yes	walks	5
Kamil Krill	m	team leader	sometimes	car	10
Lysander Leaf	m	production	yes	bus	9
Maria Mayes	f	taste tester	yes	car	5
Niamh Neve	f	packing	yes	car	5
Oswald Owen	m	team leader	sometimes	cycles	8
Phileas Fear	m	production	yes	cycles	11
Quinby Quarter	m	taste tester	yes	car	12
Ruth Raine	f	production	yes	car	6
Scarlett Snow	f	packing	yes	bus	4
Theo Thumb	m	marketing	no	car	9
Usha Umrani	f	taste tester	yes	bus	5
Violet Vain	f	packing	yes	car	6
Warren Whist	m	taste tester	yes	car	11
Xavier Xi	m	marketing	no	car	10
Yuri Yale	m	team leader	sometimes	walks	8
Zarin Zardari	f	production	yes	walks	5
Nathaniel Newsome	m	production	yes	cycles	9
Wilhemina West	f	marketing	no	car	4
Constance Corn	f	marketing	no	car	6
Benedict Brew	m	taste tester	yes	bus	11

Clue 1

Find the missing multiples in the number sets below then take the last number in each row and find it in the box. Order the words into a sentence and solve clue number 1.

Count on in steps of 5 and finish the sequence.

15			30				
----	--	--	----	--	--	--	--

Count on in steps of 4 and finish the sequence.

8				24			
---	--	--	--	----	--	--	--

Count on in steps of 10 and finish the sequence.

0			30				
---	--	--	----	--	--	--	--

Count on in steps of 8 and finish the sequence.

0			24				
---	--	--	----	--	--	--	--

Count on in steps of 50 and finish the sequence.

0				200			
---	--	--	--	-----	--	--	--

Count on in steps of 3 and finish the sequence.

3		9					
---	--	---	--	--	--	--	--

Count on in steps of 100 and finish the sequence.

20	120			420			
----	-----	--	--	-----	--	--	--

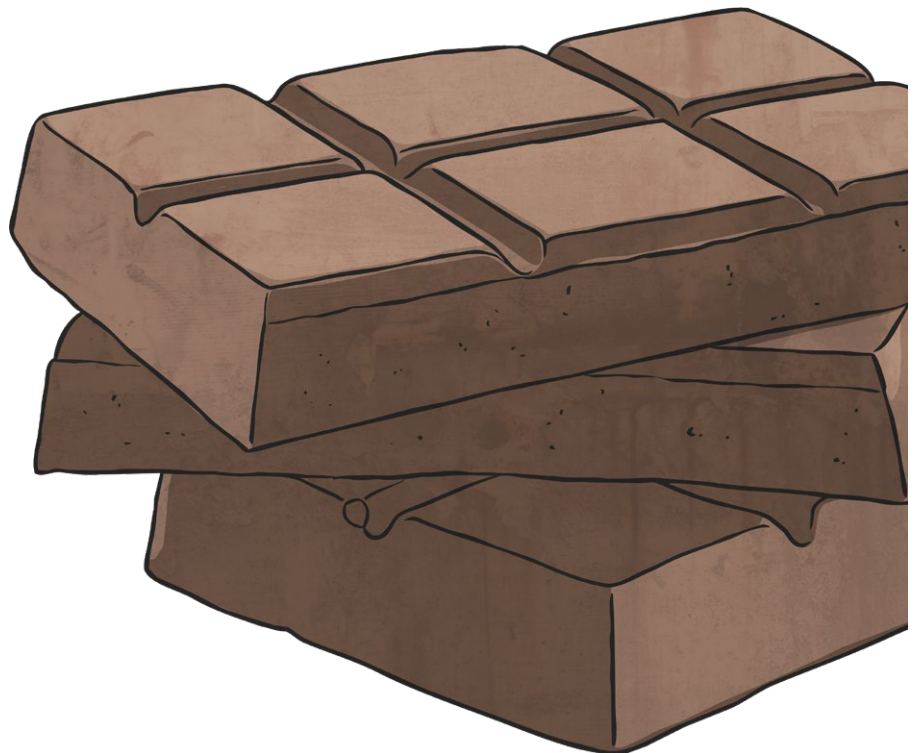
Count on in steps of 2 and finish the sequence.

0		4					
---	--	---	--	--	--	--	--

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56 went	45 ticket	720 factory	350 by
21 bus	50 culprit	48 was	12 found
36 the	32 bike	620 a	24 to
60 clip	70 the	14 car	300 walked

Answer to clue 1: _____



Clue 2

Use these signs (<, > and =) to compare the pairs of numbers.

If there are more >, the safe-breaker did not wear a hat.

If there are more <, the safe-breaker wore a hat.

If there are more =, the safe-breaker sometimes wore a hat.

38		83
----	--	----

61		52
----	--	----

11		16
----	--	----

87		81
----	--	----

22		12
----	--	----

19		91
----	--	----

24		42
----	--	----

18		18
----	--	----

108		180
-----	--	-----

221		122
-----	--	-----

341		344
-----	--	-----

219		209
-----	--	-----

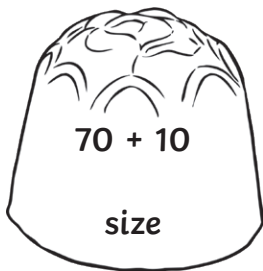
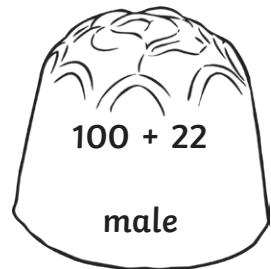
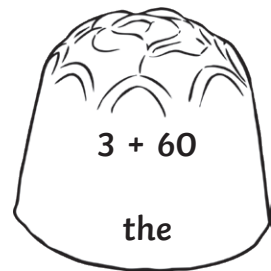



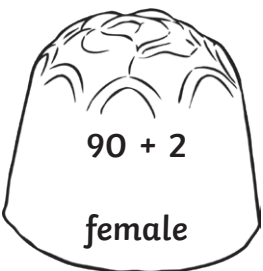

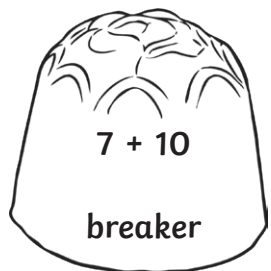

Answer to clue 2: The culprit _____.



Clue 3

Read the numbers in words then identify the correct calculation they equal and colour it in. Order the words with the calculations and solve clue number 3.

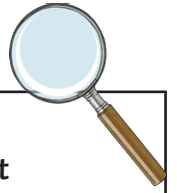
sixty-three	forty-nine	one hundred and twelve
three hundred and four	seventeen	ninety-two

 <p>70 + 10 size</p>	 <p>100 + 22 male</p>	 <p>3 + 60 the</p>
 <p>100 + 10 + 2 naughty</p>	 <p>300 + 4 was</p>	 <p>70 + 3 found</p>
 <p>90 + 2 female</p>	 <p>40 + 9 safe</p>	 <p>7 + 10 breaker</p>
	 <p>19 + 40 shoe</p>	

Answer to clue 3: _____

Clue 4

Make the largest numbers you can from these groups of digits then complete the number statements. Find the correct answers in the table and solve clue number four.



7541 in	1984 marketing	5531 department
851 thief	3802 shoe	601 team
5714 near	760 the	392 manager
3551 production	3208 footprint	610 worked
932 plan	999 lost	8320 the
670 size	9841 packing	3208 leader

2	3	9

1	6	0

0	6	7

5	1	8

The Place Value Mystery of the Thief at Gideon Gold's Chocolate Factory

3	5	5	1

2	0	3	8

5	1	7	4

8	9	1	4

Answer to clue 4: _____



Clue 5

What is the value of the underlined numbers?

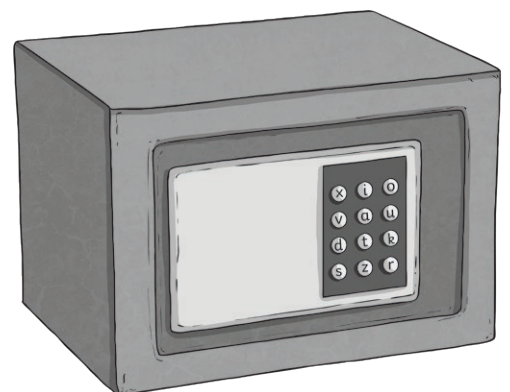
<u>2</u> 01	6 <u>2</u> 3	9 <u>9</u> 9	1 <u>8</u> 92	31 <u>1</u> 9	<u>2</u> 3
<u>1</u> 070	4 <u>4</u> 3	87 <u>1</u>	<u>5</u> 16	6 <u>6</u> 5	98 <u>1</u> 2

60 plan	800 naughty	200 had	30 was
2 six	6 footprint	4 five	1000 chocolate
100 seven	90 the	500 very	10 were
1 feet	8 a	400 found	80 shoe
600 which	40 thief	300 under	20 size

Answer to clue 5: _____

Have you solved the mystery?

The safe breaking chocolate plan thief is _____.



The Place Value Mystery of the Thief at Gideon Gold's Chocolate Factory - Answers

Clue 1:

The culprit went to the factory by car.

56 went	45 ticket	720 factory	350 by
21 bus	50 culprit	48 was	12 found
36 the	32 bike	620 a	24 to
60 clip	70 the	14 car	300 walked

Clue 2:

There are more < signs

The culprit did wear a hat.

38 < 83 61 > 52 11 < 16
87 > 81 22 > 12 19 < 91
24 < 42 18 = 18 108 < 180
221 > 122 219 > 209 341 < 344

Clue 3:

The naughty safe breaker was female.

63 = 3 + 60
49 = 40 + 9
112 = 100 + 10 + 2
304 = 300 + 4
17 = 7 + 10
92 = 90 + 2

Clue 4:

The plan thief worked in the packing department.

7541 in	1984 marketing	5531 department
851 thief	3802 shoe	601 team
5714 near	760 the	392 manager
3551 production	3208 footprint	610 worked
932 plan	999 lost	8320 the
670 size	9841 packing	3208 leader

Clue 5:

The very naughty chocolate plan thief had feet were which size six.

60 plan	800 naughty	200 had	30 was
2 six	6 footprint	4 five	1000 chocolate
100 seven	90 the	500 very	10 were
1 feet	8 a	400 found	80 shoe
600 which	40 thief	300 under	20 size

Have you solved the mystery?

The chocolate plan thief of Gideon Gold's chocolate factory was Violet Vain.