# The Mystery of the Melted Ice Cream At the Merryvale Fair

The town of Merryvale look forward to the arrival of the travelling fair every summer. The children save up their pocket money, the mums and dads nag them not to eat too much junk and to be sensible, and the teenagers can't wait to jump on the waltzers and feel sick on the rickety rollercoaster.

This year is no exception and everyone is excited about the fair opening on Friday night.

However, disaster has struck!

The large ice cream van has got everyone's favourite ice creams loaded up and ready to serve. The crowds start entering the playing field and the rides begin to turn.

The queue outside the ice cream van is growing, when Mr Freeze goes to the ice cream tubs only to find they are all completely melted! Someone has unplugged the massive freezers keeping the large number of tubs of ice cream frozen!

As Chief Inspector, you need to find and solve the clues, and end the mystery of the ice-less ice cream of the Merryvale Fair.







Name	M/F	Age	Food eaten	Type of hat	Shoe size
Alec Adams	М	12	burger	canvas	4
Bilhal Begum	М	14	chips	baseball cap	9
Charlie Carter	М	10	burger	canvas	6
Danielle Danesh	F	13	chips	sun visor	5
Euan Evans	М	13	hot dog	baseball cap	10
Fiona Freidman	F	12	hot dog	canvas	5
Gethin Griffin	М	10	taco	baseball cap	7
Hamish Hendry	М	15	hot dog	baseball cap	10
Igor Isles	М	12	burger	baseball cap	4
Jasvinder Jain	F	12	burger	sun visor	9
Kuba Kucharzewski	М	12	chips	baseball cap	8
Leonie Lane	F	15	taco	straw	6
Mollie Mehmet	F	14	taco	canvas	6
Nic Nowak	М	14	taco	baseball cap	9
Oliver Olland	М	13	chips	sun visor	8
Pam Patel	F	12	burger	baseball cap	4
Quinn McQueen	М	12	burger	baseball cap	10
Robbie Rayson	М	12	taco	straw	4
Safa Sharif	F	13	chips	baseball cap	5
Tomasz Taylor	М	13	burger	canvas	10
Uma Underwood	F	12	hot dog	sun visor	6
Veronica Valley	F	11	chips	baseball cap	5
Wi Wong	М	15	taco	baseball cap	10
Xi Xan	М	14	burger	canvas	10
Zoe Zub	F	12	hot dog	canvas	6



# **Clue 1: True or False?**

Answer true or false to these statements. If there are more false statements than true, the culprit is male.

Statement	True	False
A cuboid has 6 vertices.		
14 × 20 = 280		
14:35 is the same as twenty minutes to three.		
$\frac{4}{10}$ of 150 is 60.		
A square-based pyramid has four flat surfaces.		
$\frac{3}{4}$ of 300 is 215.		
There are 315 minutes in 5 $\frac{1}{4}$ hours.		
There are 75 twenty pence coins in £15.		
1289 - 369 = 910		
Three years is equal to 146 weeks.		
$\frac{1}{5} + \frac{2}{5} = \frac{3}{5}$		
81 ÷ 9 = 8		
4.6 is rounded to 4.		
Five lots of fifteen equals seventy-five.		
Six triangles and three squares have thirty sides altogether.		

#### Answer to clue 1:

Circle the correct gender.

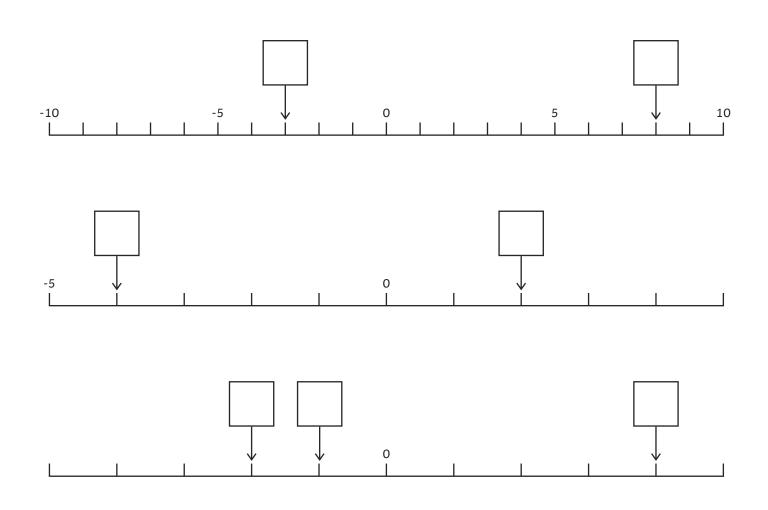
The culprit is M / F





# **Clue 2: Number Lines**

Put the missing numbers on the number lines, then order the words in the table and solve the next clue.



-1	5	-4	1
wearing	thirteen	cap	eleven
9	-3	-5	-2
fourteen	the	hotdog	baseball
2	7	8	4
a	footprint	was	culprit

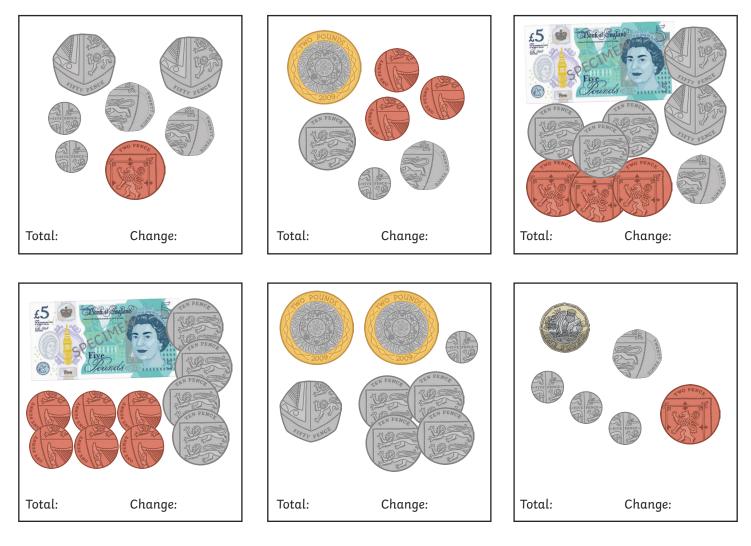
#### Answer to clue 2:





# Clue 3: Change

Work out the change given from £10. Find the answers in the table and rearrange the words to solve the third clue.



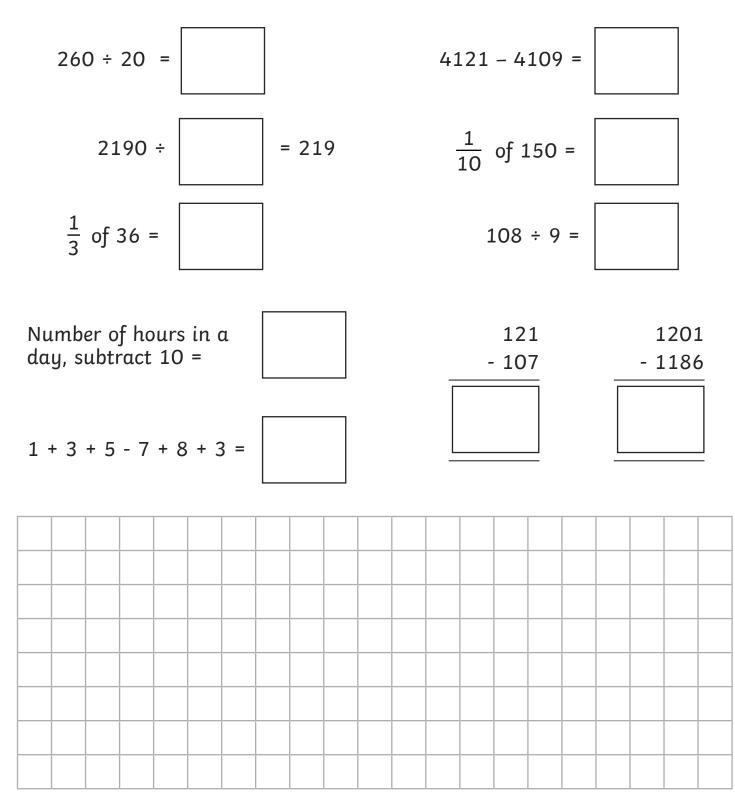
£4.54	£3.24	£7.62	£2.10
were	hotdog	in	chips
£7.50	£8.48	£5	£8.63
dropped	found	taco	van
£5.05	£7.12	£3.44	£2.54
crumbs	shoe	burger	wrapper

#### Answer to clue 3:



### **Clue 4: Common Answers**

Whichever answer is repeated the most, is the age of the ice cream wrecker.



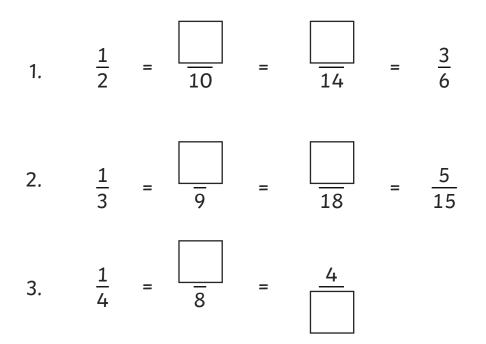
#### Answer to clue 4:

The ice cream wrecker is \_\_\_\_\_ years old.



## **Clue 5: Equivalent Fractions**

Fill in the missing equivalent fractions.



4	2	9
five	footprint	found
3	8	5
discovered	ice-cream	freezer
10	7	1
lost	by	there
6	12	16
size	culprit	ten

Answer to clue 5:

### Have you worked out who melted all the ice creams at the Merryvale Fair?

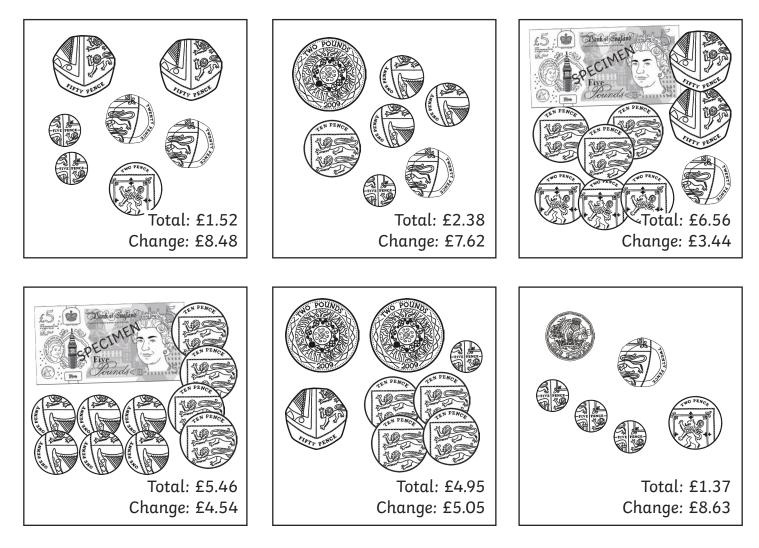
The person who melted all the ice cream was \_\_\_\_\_





### Clue 3 Answers

Work out the change given from £10. Find the answers in the table and rearrange the words to solve the third clue.



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were	hotdog	in	chips
£7.50	£8.48	£5	£8.63
dropped	found	taco	van
£5.05	£7.12	£3.44	£2.54
crumbs	shoe	burger	wrapper

#### Answer to clue 3:

Burger crumbs were found in the van.

