

The Mystery of the Melted Ice Cream At the Springvale Fair

The town of Springvale 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 the spinning shells and feel sick on the rickety rollercoaster.

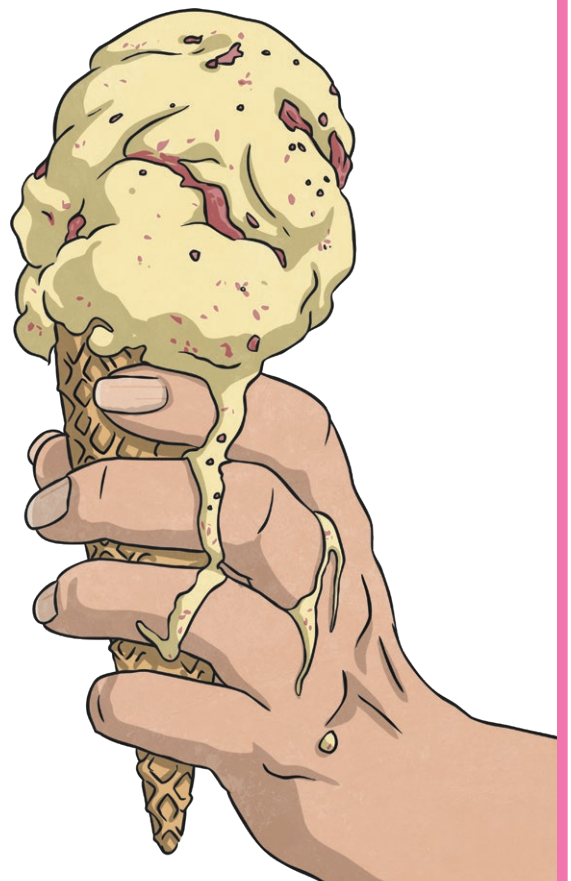
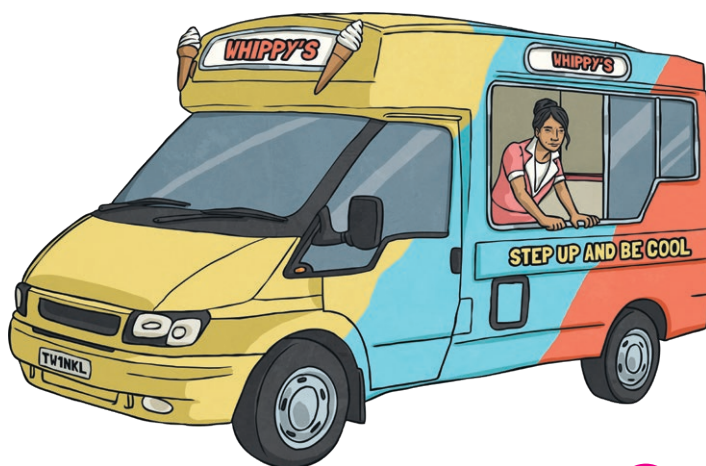
This year is no exception and everyone is excited about the fair opening on Friday night.

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 Investigating Officer, you need to find and solve the clues, and end the mystery of the ice-less ice cream of the Springvale Fair.



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Name	M/F	Age	Food eaten	Type of hat	Shoe size
Angelo Teladia	M	11	Chips	Floppy hat	7
Becky Black	F	13	Hot dog	Floppy hat	6
Freddie Singh	M	12	burger	Baseball cap	8
Gamu Mabena	F	12	taco	Sun hat	5
Jaco Kramer	M	11	burger	Baseball cap	7
Jacob Xau	M	13	chips	beanie	6
Jade Pienaar	F	11	burger	Baseball cap	9
Jappie Pieterse	M	12	taco	Floppy hat	10
Jethro Matthews	M	12	chips	Baseball cap	9
Joe Johnson	M	13	burger	beanie	6
Kate-Lynne van der Merwe	F	11	Hot dog	Sun hat	5
Lauren Penrith	F	11	taco	Sun hat	7
Lee Xin	M	12	burger	beanie	10
Min Cheng	F	13	Hot dog	Sun hat	8
Ofentse Nungu	M	12	Burger	Baseball cap	10
Sahil Dulah	M	12	Hot dog	Floppy hat	6
Sally Adams	F	13	chips	Sun hat	7
Silindile Mangwa	M	11	Hot dog	Floppy hat	8
Susarah van de Venter	F	11	taco	Floppy hat	5
Tiya Patel	F	12	chips	Sun hat	7
William Venter	M	12	burger	Baseball cap	8
Xolani Zungu	M	13	burger	beanie	6
Zak Chin	M	12	burger	Baseball cap	9
Zama Ndlovu	F	11	taco	Baseball cap	6
Zoe Park	F	12	chips	Sun hat	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.		
$14 \times 20 = 280$		
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 cent pieces in R15		
$1289 - 369 = 910$		
Three years is equal to 146 weeks.		
$\frac{1}{5} + \frac{2}{5} = \frac{3}{5}$		
$81 \div 9 = 8$		
4.6 is rounded to 4.		
Five lots of fifteen equals seventy-five.		
Six triangles and three squares have thirty sides altogether.		

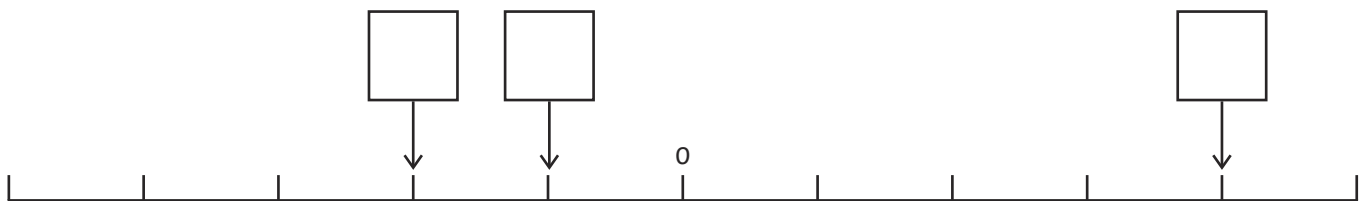
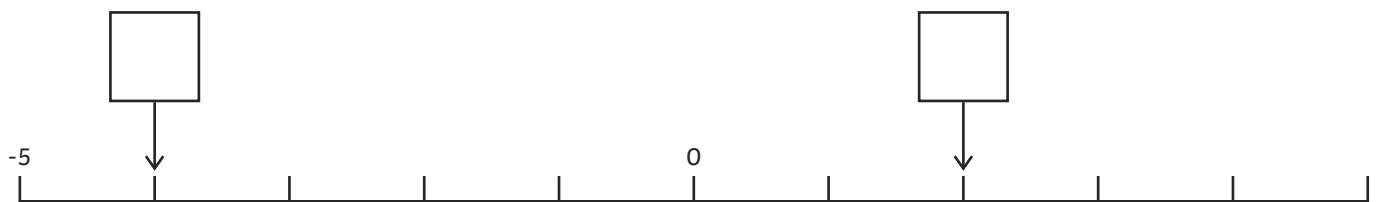
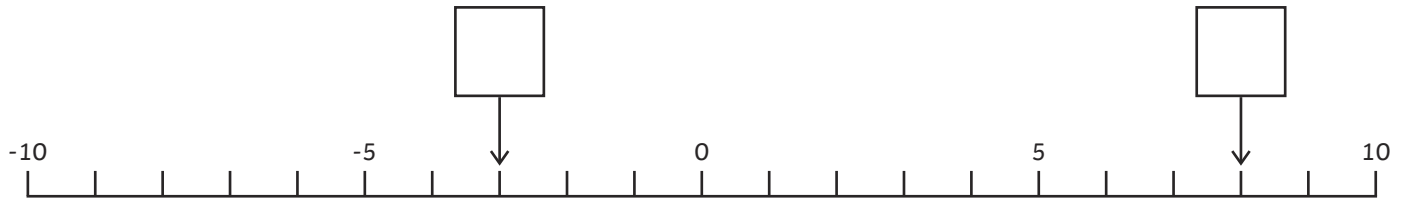
Answer to clue 1:

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

Answer to clue 2:

Clue 3: Change

Work out the change given from R10. Find the answers in the table and rearrange the words to solve the third clue.



Total:
Change:



Total:
Change:



Total:
Change:



Total:
Change:



Total:
Change:



Total:
Change:



Total:
Change:

R2,20 wrapper	R5,40 burger	R4,30 the	R4,65 van	R7,40 in
R2,30 bus	R6,90 found	R5,10 outside	R3,35 chips	R6,60 hotdog
R9,50 taco	R8.80 behind	R3,80 were	R6,75 wrapper	R1,75 crumbs

Answer to clue 3:

Clue 4: Common Answers

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

$$260 \div 20 =$$

$$4121 - 4109 =$$

$2190 \div$

$$\frac{1}{10} \text{ of } 150 =$$

$$\frac{1}{3} \text{ of } 36 =$$

$$108 \div 9 =$$

Number of hours in a day,
subtract 10 =

$$\begin{array}{r} 121 \\ - 107 \\ \hline \end{array}$$

$$\begin{array}{r} 1201 \\ - 1186 \\ \hline \end{array}$$

$$1 + 3 + 5 - 7 + 8 + 3 =$$

[illegible]

Answer to clue 4:

The ice cream wrecker is _____ years old.

Clue 5: Equivalent Fractions

Fill in the missing equivalent fractions.

1. $\frac{1}{2} = \frac{\boxed{}}{10} = \frac{\boxed{}}{14} = \frac{3}{6}$

2. $\frac{1}{3} = \frac{\boxed{}}{9} = \frac{\boxed{}}{18} = \frac{5}{15}$

3. $\frac{1}{4} = \frac{\boxed{}}{8} = \frac{4}{\boxed{}}$

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

Answer to clue 5:

**Have you worked out who melted all the ice creams
at the Springvale Fair?**

The person who melted all the ice cream was _____.