

# The Mystery of the Replacement Reindeer **Answers**

Clue 1: Add and Subtract Numbers

<b>START</b> 46	+ 10 <b>56</b>	+ 8 <b>64</b>	- 24 <b>40</b>	+ 170 <b>210</b>
- 406 <b>415</b>	- 57 <b>358</b>	+ 201 <b>559</b>	+ 41 <b>600</b>	- 86 <b>124</b>
+ 732 <b>821</b>	- 229 <b>450</b>	<b>END</b> <b>450</b>	- 308 <b>292</b>	+ 204 <b>328</b>
- 99 <b>89</b>	- 194 <b>679</b>	+ 63 <b>873</b>	+ 518 <b>810</b>	- 291 <b>37</b>
- 640 <b>188</b>	+ 367 <b>828</b>	- 80 <b>461</b>	+ 426 <b>541</b>	+ 78 <b>115</b>

**END = 450**

Clue 1: The reindeer's top speed is greater than **50mph**.

Clue 2: Solving Missing Number Problems

$$86 + 207 = \mathbf{293}$$

$$75 + 125 + 50 = \mathbf{250}$$

$$\mathbf{248} - 97 = 151$$

$$426 - 165 = \mathbf{261}$$

$$124 + 152 = \mathbf{276}$$

$$570 - \mathbf{284} = 286$$

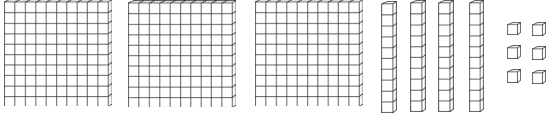
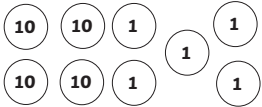
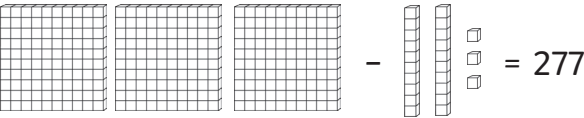
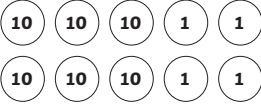
$$84 + \mathbf{239} = 323$$

$$\mathbf{257} - 178 = 79$$

261 carrots or mushrooms	257 sprouts or apples	276 oats or carrots
248 carrots or apples	284 apples or oats	293 mushrooms or sprouts
239 oats or sprouts	<b>247</b> <b>mushrooms or apples</b>	250 carrots or sprouts

Clue 2: The reindeer's favourite food is **mushrooms** or **apples**.

Clue 3: Checking Answers

	True	False
$70 + 2 = 702$		✓
$431 - 85 =$ 	✓	
 + $762 = 807$	✓	
$500 + 10 + 6 = 561$		✓
 = $277$	✓	
$634 = 391 + 343$		✓
$876 - 93 = 969$		✓
$529 - 218 = 62 + 249$	✓	
$204 -$  = $136$		✓
Total	4	5

Clue 3: The reindeer's age is an **even** number.

Clue 4: Solving Missing Number Problems

$140 + 160 = \mathbf{300}$ <b>M</b>	$472 - \mathbf{411} = 61$ <b>U</b>	$27 + 144 = \mathbf{171}$ <b>L</b>	$835 - 678 = \mathbf{157}$ <b>T</b>	$\mathbf{602} - 51 = 551$ <b>I</b>
$\mathbf{917} + 33 = 950$ <b>P</b>	$705 - \mathbf{171} = 534$ <b>L</b>	$183 + 62 = \mathbf{245}$ <b>E</b>	$\mathbf{498} - 250 = 248$ <b>O</b>	$166 + \mathbf{817} = 983$ <b>F</b>
	$543 + \mathbf{157} = 700$ <b>T</b>	$\mathbf{245} - 54 = 191$ <b>E</b>	$208 + 527 = \mathbf{735}$ <b>N</b>	

Clue 4: The length of the reindeer's antler is a **multiple of ten**.

Clue 5: Column Addition and Subtraction

	<b>9</b>	0	4
-	7	3	5
	1	6	9

	5	<b>1</b>	8
+	2	8	7
	8	0	5

	4	2	7
+	1	<b>2</b>	6
	5	5	3

	3	5	1
+	3	9	5
	<b>7</b>	4	6

	7	4	2
-	1	8	6
	5	5	<b>6</b>

	8	9	3
-	5	0	<b>8</b>
	3	8	5

Clue 5: The reindeer's special power is **night vision**.

<b>8</b> night vision	4 not	<b>1</b> reindeer's
<b>2</b> the	<b>6</b> special	<b>9</b> is
3 super	<b>7</b> power	5 super strength

The replacement reindeer is **Freckles**.