White Rose Maths

1 a) Complete the fact family for the bar model.

$w + 78 = \boxed{163}$

163

w 78
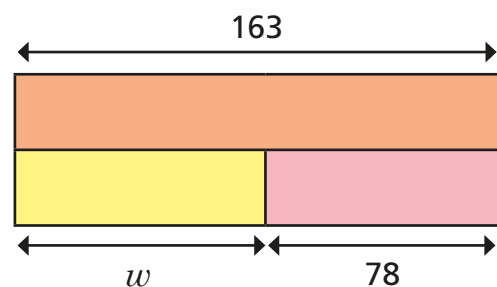
$78 + \boxed{w} = \boxed{163}$

$w = 163 - \boxed{78}$ ✓

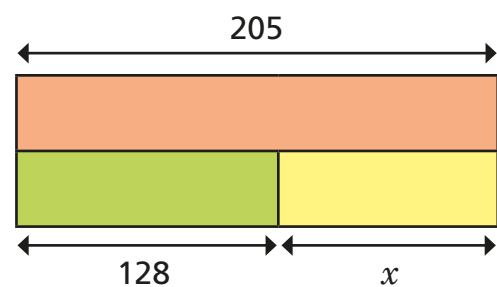$78 = \boxed{163} - \boxed{w}$

b) Which fact will help you work out the value of w?

Tick your answer.

c) Work out the value of w.

$w = \boxed{85}$
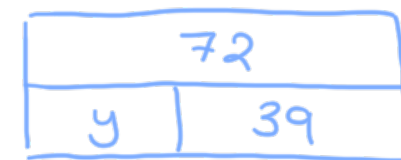
2 a) Write the fact family for the bar model.

205

128   x

$128 + x = 205$
$x + 128 = 205$
$205 - x = 128$
$205 - 128 = x$

b) What is the value of x?

$x = \boxed{77}$

3 a) Draw a bar model to illustrate $y + 39 = 72$

72

y 39

b) Write the fact family for your bar model.

$y + 39 = 72$ $39 + y = 72$

$72 - y = 39$ $72 - 39 = y$

c) What is the value of y?

$y = \boxed{33}$

4 Solve the equations.

a) $d + 59 = 91$

$d = \boxed{32}$

b) $15.8 + e = 29$

$e = \boxed{13.2}$

c) $63.1 = f + 17$

$f = \boxed{46.1}$

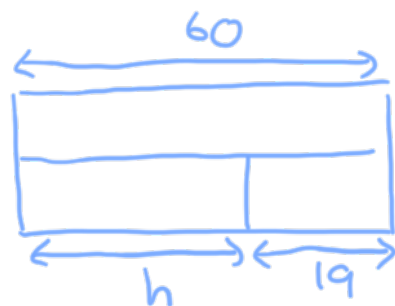**d)** $368.23 = x + 65.7$

$x = \boxed{302.53}$

e) $3001.72 = 1003.27 + y$

$y = \boxed{1,998.45}$

5 Rosie has drawn a bar model to illustrate the equation $60 - h = 19$
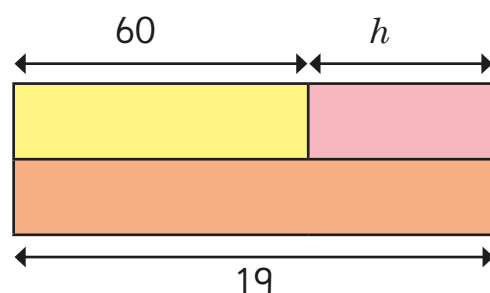
What mistake has Rosie made? Draw the correct bar model.

60

h   *19*

6 **a)** Draw a bar model to illustrate $g - 59 = 12$

Write the fact family for the bar model.

g	
59	12

$59 + 12 = g$

$12 + 59 = g$

$g - 59 = 12$

$g - 12 = 59$

b) What is the value of g?

$g = \boxed{71}$

7 Solve the equations.

a) $70 - b = 18$

$b = \boxed{52}$

b) $83 = m - 164$

$m = \boxed{247}$

c) $p - 321 = 407.3$

$p = \boxed{728.3}$

8 Write an equation for each of these problems.

Whitney thinks of a number. She adds 87 to her number and gets an answer of 153

Tommy thinks of a number. He subtracts his number from 302.1 and gets an answer of 149.8

Solve the equations.

$x + 87 = 153$

$302.1 - x = 149.8$

Whitney's number is $\boxed{66}$

Tommy's number is $\boxed{152.3}$