

1. The formula for converting kilometres (k) to miles (m) is  $k = m \times \frac{8}{5}$   
 Convert the following mileages to kilometres:  
 a) 5 miles **8km**    b) 12 miles **19.2km**    c) 20 miles **32km**    d) 55 miles **88km**  
 e) 62.5 miles **100km**

2. The area of a rectangle is expressed by this formula  $A = ab$   
 Complete the table:

a (cm)	b (cm)	A (cm <sup>2</sup> )
4	6	<b>24</b>
8	4	<b>32</b>
<b>12</b>	3	36
9	5	<b>45</b>
6	<b>15</b>	90

3. In each of these formulae, calculate the value of y when x = 6 and of x

Formula	X=6	Y=6
$Y = x + 2$	<b>y = 8</b>	<b>X = 4</b>
$Y = 2x - 4$	<b>Y = 8</b>	<b>X = 5</b>
$Y = 3x + 3$	<b>Y = 21</b>	<b>X = 1</b>
$2y = x + 8$	<b>Y = 7</b>	<b>X = 4</b>

when y = 6

4. Which number do the 2 shapes represent?

Each shape stands for a number.

$\square + \bigcirc + \bigcirc + \square = 80$   
 $+ \bigcirc + \square = 56$

circle = 24    square = 16

Challenge: create a puzzle for your family to solve.

