CHANGING SUBJECT OF A FORMULA SQUARES

Answer all of these questions. Remember to show your working out in all questions.

MAIN QUESTIONS

1.
$$x^2 = 16$$
 $x = \pm 4$ 2. $y^2 = 25$ $y = \pm 5$

3.
$$2x^2 = 18$$
 $x = \pm 3$ 4. $3y^2 = 27$ $y = \pm 3$

5.
$$x^2 + 4 = 20$$
 $x = \pm 4$ 6. $y^2 - 9 = 16$ $y = \pm 5$

9.
$$x^2/2 = 8$$
 $y = \pm 4$ 10. $y^2/3 = 12$ $y = \pm 6$

11.
$$(x+1)^2 = 9$$
 $x = 2 \text{ or } x = -4$ 12. $(y-2)^2 = 16$ $y = 6 \text{ or } y = -2$

13.
$$2(x + 3)^2 = \begin{cases} x = 1 \text{ or } x = -7 \end{cases}$$
 14. $3(y - 1)^2 = \begin{cases} y = 4 \text{ or } y = -2 \end{cases}$

15.
$$(2x)^2 = 64$$
 $x = \pm 4$ 16. $(3y)^2 = 81$ $y = \pm 3$

MASTER QUESTIONS



- M1. The area of a square is 49cm². Find the length of one side.
- M2. A number squared is 144. What is the number?

7cm

M3.	The square of a number plus 7 equals 32. Find the number.		±5
M4.	A square has an area of 81m ² . Find its perimeter.	ī	36m

M5. The product of a number and its square is 64. Find the number.