

Question 10. (AQA June 2005 Intermediate Paper 1 NO Calculator)

Make r the subject of the formula on the right.

$$p = 3 + 2r$$

[2 marks]

Question 11. (AQA June 2007 Intermediate Paper 1 NO Calculator)

Two car firms use different ways of charging for the hire of a car.

(a) Cheap Days uses this formula

$$H = 50d + 120$$

H is the hire charge in pounds.
 d is the number of days the car is hired.

Work out H when $d = 2$

[2 marks]

(b) Cheap Miles uses this formula

$$H = \frac{m + 750}{5}$$

H is the hire charge in pounds.
 m is the number of miles the car travels.

Work out m when $H = 200$

[2 marks]

Question 12. (AQA November 2005 Intermediate Paper 1 NO Calculator)

(a) Use the formula

$$y = 5x + 2$$

to work out the value of y when $x = -3$

[2 marks]

(b) Use the formula

$$y = 5x + 2$$

to work out the value of x when $y = 32$

[2 marks]

Question 13. (AQA November 2005 Intermediate Paper 1 NO Calculator)

Make t the subject of the formula on the right.

$$w = \sqrt{t} - v$$

[2 marks]

Question 14. (AQA June 2003 Higher Paper 2 Calculator OK)

Make r the subject of the formula on the right.

$$r - 3 = \pi(t - 2r)$$

[4 marks]

Question 15. (AQA June 2005 Higher Paper 2 Calculator OK)

Make x the subject of the formula on the right.

$$a(x - b) = a^2 + bx$$

[4 marks]

Question 16. (AQA June 2006 Higher Paper 2 Calculator OK)

Rearrange the formula on the right to make x the subject.
 Simplify your answer as much as possible.

$$y = \frac{xy + 2}{3x - 4}$$

[4 marks]

Question 17. (AQA November 2003 Higher Paper 2 Calculator OK)

Rearrange the formula on the right to make x the subject.
 Simplify your answer as much as possible.

$$y = \frac{3x + 4}{x - 3}$$

[4 marks]