



Maths
Junior Certificate
Ordinary Level

Past Exam Questions on
Simple Equations

Q5 Part (c) 2011 Paper 1

- (c) (i) Solve the equation $5(3x + 1) - 2(5x + 35) = 0$.

Verify your answer.



Solve:

Verify:

- (ii) Solve $x^2 + 3x - 10 = 0$.



Q5 Part (a) 2010 Paper 1

- 5.** (a) Solve the equation $3(x - 2) = 2x + 5$.



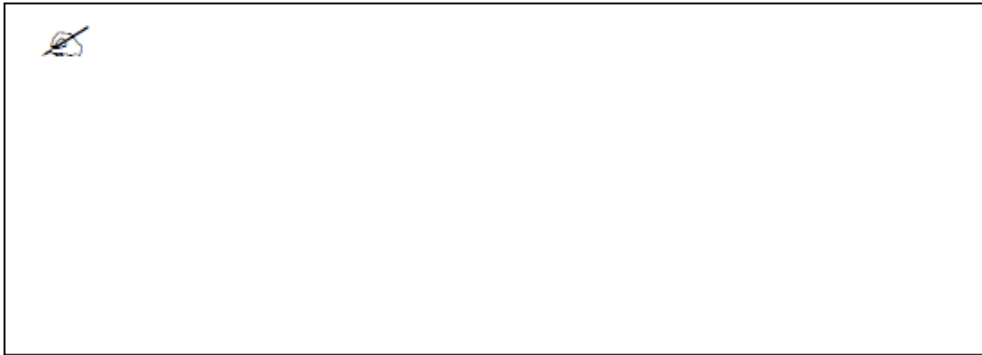
Q5 Part (a) 2009 Paper 1

- 5.** (a) Write in its simplest form $3(x + 2) + 4(3x + 1)$.

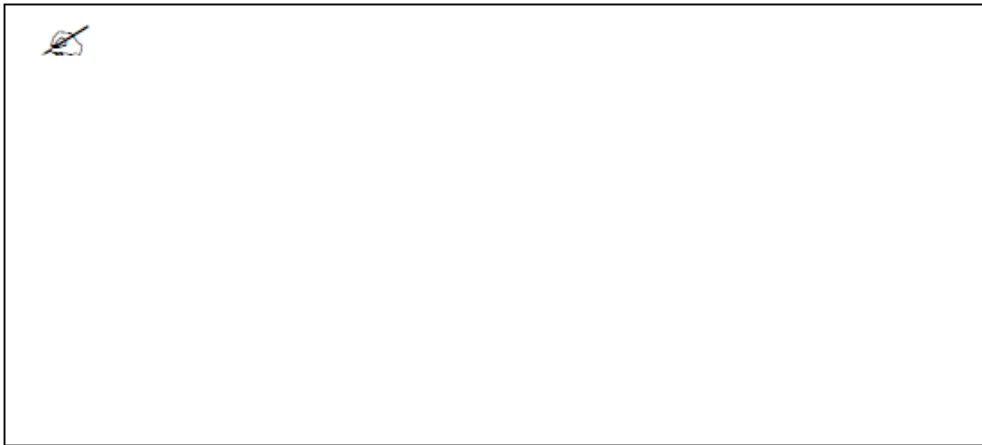


Q4 Part (b) 2009 Paper 1

4(b) (i) Solve the equation $5x - 10 = 3(x + 2)$.




(ii) Multiply $(x - 3)$ by $(2x + 1)$.
Write your answer in its simplest form.



Q4 Part (b) 2008 Paper 1

4(b) (i) Solve the equation $3(2x - 1) = 4x + 9$.



A large empty rectangular box for writing the solution to the equation $3(2x - 1) = 4x + 9$.

(ii) Multiply $(5x - 2)$ by $(3x + 4)$.
Write your answer in its simplest form.



A large empty rectangular box for writing the answer to the multiplication problem $(5x - 2)(3x + 4)$.


Q4 Part (c) 2008 Paper 1

4(c) Shane is x years old. Eileen is three years younger than Shane.

(i) Find Eileen's age in terms of x .

(ii) If the sum of Shane's age and Eileen's age is 47, write down an equation in x to represent this information.

(iii) Solve the equation that you formed in part (ii) above, for x .

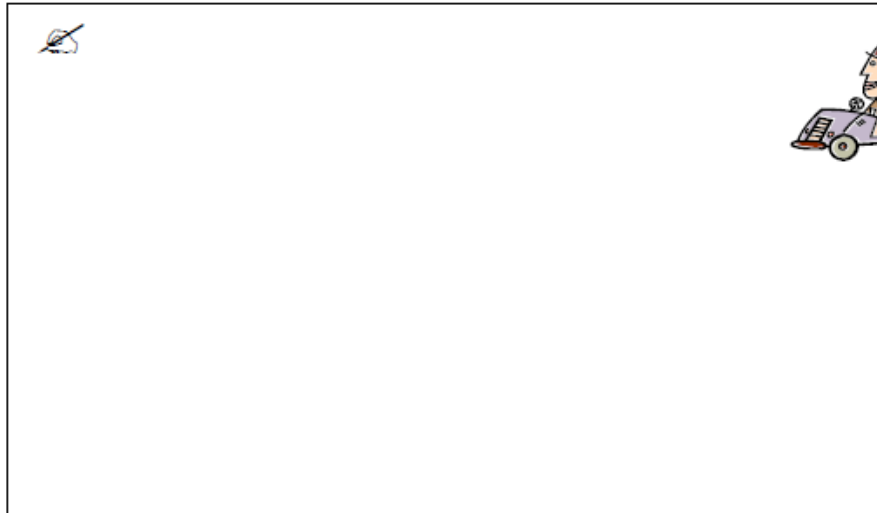


(iv) When Eileen is $2x + 5$ years old, find the sum of Shane's age and Eileen's age.



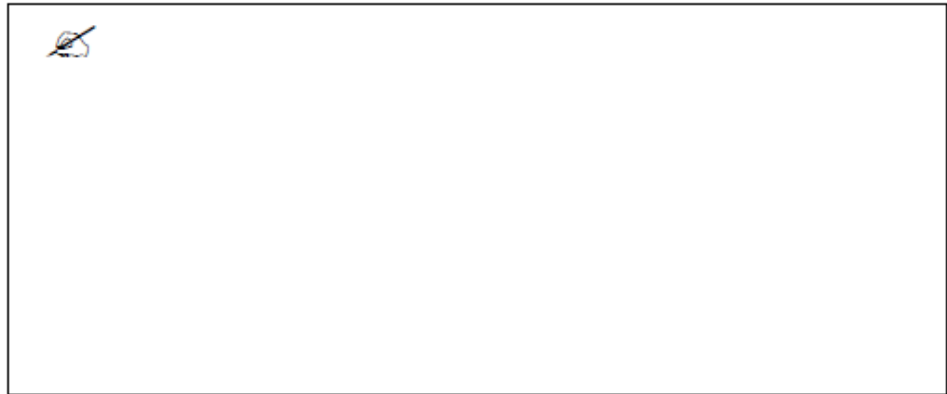
Q4 Part (c) 2007 Paper 1

- 4(c) (i) Liam drove from Town *A* to Town *B*, a distance of x km.
He then drove from Town *B* to Town *C*, a distance of $(2x + 1)$ km.
The total distance that he drove was 56 km.
Find the value of x , correct to the nearest kilometre.



Q4 Part (b) 2007 Paper 1

4(b) (i) Solve the equation $4(5x + 6) = 84$.

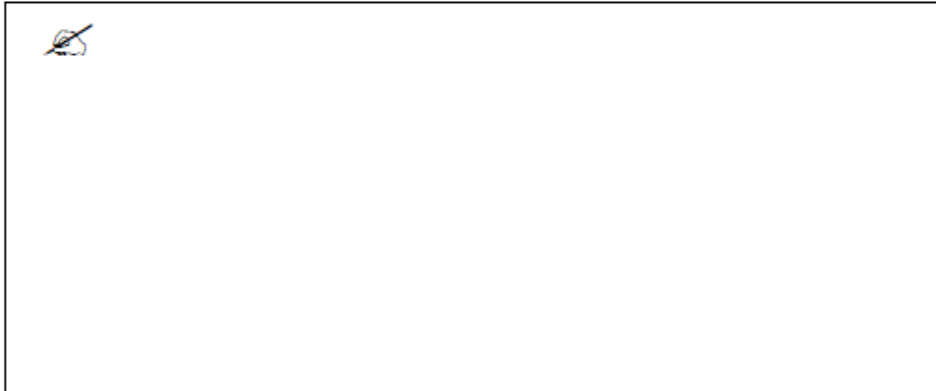


(ii) Write in its simplest form
 $3x^2 - 2x + 6 - x(2x - 3)$.



Q4 Part (b) 2006 Paper 1

- 4(b) (i) Solve the equation $2(x - 3) = x + 1$.



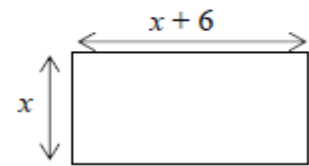
- (ii) Multiply $(x - 5)$ by $(2x + 3)$.
Write your answer in its simplest form.



Q4 Part (c) 2005 Paper 1

4(c)

A rectangle has a length $(x + 6)$ cm and width x cm, as in the diagram.



(i) Find the perimeter of this rectangle in terms of x .



(ii) If the perimeter of the rectangle is 40 cm, write down an equation in x to represent this information.



(iii) Solve the equation that you formed in part (ii) above, for x .



(iv) Find the area of the square with the same perimeter as the given rectangle. Give your answer in cm^2 .



Q5 Part (a) 2005 Paper 1

5. (a) Solve the equation $5x - 6 = 3(x + 4)$

