1 (c) Solve
$$\frac{5x-3}{4} = 2x+3$$



(Total for Question 1 is 3 marks)

2 (a) Solve 5(4-x) = 7 - 3xShow clear algebraic working.

x = (3)

(Total for Question 2 is 3 marks)

3 (c) Solve
$$\frac{4x-2}{3} - \frac{5-3x}{4} = 6$$



(Total for Question 3 is 4 marks)

4 (a) Solve
$$\frac{4-3x}{5} - \frac{3x-5}{2} = -3$$



(Total for Question 4 is 3 marks)

5 (b) Solve $(2x + 5)^2 = (2x + 3)(2x - 1)$

x = (3)

(Total for Question 5 is 3 marks)

6 (b) Solve
$$4 - 3x = \frac{5 - 8x}{4}$$



(Total for Question 6 is 3 marks)

7 (a) Solve
$$\frac{9a-7}{5} - \frac{3a-7}{4} = 4.55$$



(Total for Question 7 is 3 marks)

8 (a) Solve
$$p = \frac{3p-5}{10}$$

$$p = \dots (3)$$

(Total for Question 8 is 3 marks)

9 (b) Solve
$$2x - 3 = \frac{3x - 5}{4}$$



(Total for Question 9 is 3 marks)

10 Larry is a delivery man.

He has 7 parcels to deliver. The mean weight of the 7 parcels is 2.7 kg

Larry delivers 3 of the parcels. Each of these 3 parcels has a weight of $W \log W$

The mean weight of the other 4 parcels is 3.3 kg

Work out the value of W

W				
1/1/	_			

(Total for Question 10 is 3 marks)

11 (a) Solve $\frac{4x+5}{3} - \frac{3-2x}{2} = 13$

Show clear algebraic working.

$$x =$$
 (4)

(Total for Question 11 is 4 marks)

12 (b) Solve
$$6x-5 = \frac{4x-7}{2}$$



(Total for Question 12 is 3 marks)

13 A particle P moves along a straight line that passes through the fixed point O

The displacement, x metres, of P from O at time t seconds, where $t \ge 0$, is given by

$$x = 4t^3 - 27t + 8$$

The direction of motion of *P* reverses when *P* is at the point *A* on the line.

The acceleration of P at the instant when P is at A is $a \text{ m/s}^2$

Find the value of *a*

a =

14 Solve 3(2-4x) = 5 - 8xShow clear algebraic working.

x =

(Total for Question 14 is 3 marks)

15 The diagram shows rectangle ABCD

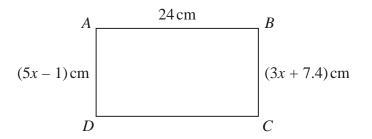


Diagram **NOT** accurately drawn

Work out the perimeter of the rectangle. Show your working clearly.

..... cm

(Total for Question 15 is 4 marks)

16 Solve
$$\frac{x+3}{4} - \frac{7-x}{5} = 4.3$$



(Total for Question 16 is 3 marks)

17 *ABCD* is a trapezium.

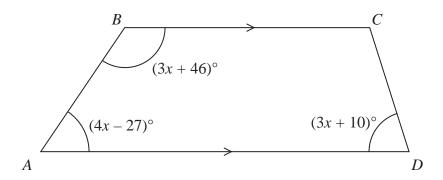


Diagram **NOT** accurately drawn

BC is parallel to AD

Find the size of the largest angle inside the trapezium.

0

(Total for Question 17 is 4 marks)

18 (c) Solve
$$\frac{1-2y}{3} = \frac{4}{5} - \frac{2y-1}{2}$$



(Total for Question 18 is 3 marks)