Name: _____

ASM Tuition Academy

Rearranging Harder Formula

Instructions:

- Use **black** ink or ball-point pen.
- Answer all questions.
- Answer the questions in the spaces provided
  - there may be more space than you need.
- Diagrams are **NOT** accurately drawn, unless otherwise indicated.
- You must **show all you're working out.**

Information:

- The marks for each question are shown in brackets
  - use this as a guide as to how much time to spend on each question.

Advice:

- Read each question carefully before you start to answer it.
- Keep an eye on time.
- Try to answer every question.

Check your answers if you have time at the end

Q1- Make q the subject of the formula p = q + at.

.....

(Total for question 1 is 1 mark)

Q2- Make a the subject of the formula p = q + at

.....

(Total for question 2 is 2 marks)

Q3- Make b the subject of the formula $a^2 = b^2 + 2cd$

.....

(Total for question 3 is 2 marks)

Q4- Make c the subject of the formula $a^2 = b^2 + 2cd$

.....

(Total for question 4 is 2 marks)

Q5- Make a the subject of the formula $s = vt + 1/2\ at^2$

.....

(Total for question 5 is 2 marks)

Q6- Make v the subject of the formula $K = 1/2\ mv^2$

.....

(Total for question 6 is 2 marks)

Q7- Make x the subject of the formula $3x + a = b(x - 3)$

(Total for question 7 is 3 marks)

Q8- Make x the subject of the formula x (3+a) = b (x +4)

(Total for question 8 is 3 marks)

Q9- Make x the subject of the formula a = (x+6)/(x+3)

(Total for question 9 is 3 marks)

Q10- Make x the subject of the formula a = (x+p) / (x-q)

(Total for question 10 is 3 marks)

Q11- Make x the subject of the formula a/b = 3x/(x+6)

(Total for question 11 is 3 marks)

Q12- Make x the subject of the formula a = (5 + 3bx) / (3x - 4).

(Total for question 12 is 3 marks)

Q13- Make q the subject of the formula 1/p = 1/q + 1/r

(Total for question 13 is 4 marks)