

Name: _____

GCSE (1 – 9)

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 your 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 the time.
- Try to answer every question.
- Check your answers if you have time at the end

1 Make u the subject of the formula $v = u + at$

.....

(Total for question 1 is 1 marks)

2 Make a the subject of the formula $v = u + at$

.....

(Total for question 2 is 2 marks)

3 Make u the subject of the formula $v^2 = u^2 + 2as$

.....

(Total for question 3 is 2 marks)

4 Make a the subject of the formula $v^2 = u^2 + 2as$

.....

(Total for question 4 is 2 marks)

5 Make a the subject of the formula $s = ut + \frac{1}{2}at^2$

.....

(Total for question 5 is 2 marks)

6 Make v the subject of the formula $T = \frac{1}{2}mv^2$

.....

(Total for question 6 is 2 marks)

7 Make x the subject of the formula $2x + a = b(x - 2)$

.....

(Total for question 7 is 3 marks)

8 Make x the subject of the formula $x(2 + a) = b(x + 3)$

.....

(Total for question 8 is 3 marks)

9 Make x the subject of the formula $a = \frac{x+4}{x+2}$

.....

(Total for question 9 is 3 marks)

10 Make x the subject of the formula $a = \frac{x+c}{x-b}$

.....

(Total for question 10 is 3 marks)

11 Make x the subject of the formula $\frac{a}{b} = \frac{2x}{x+5}$

.....

(Total for question 11 is 3 marks)

12 Make x the subject of the formula $a = \frac{4 + 2bx}{2x - 3}$

.....

(Total for question 12 is 3 marks)

13 Make b the subject of the formula $\frac{1}{a} = \frac{1}{b} + \frac{1}{c}$

.....

(Total for question 13 is 4 marks)