Name: _____

ASM Tuition Academy

Changing the Subject of the 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.

1. $p = 4c - 6$

Make c the subject of the formula.

(Total for question 1 is 2 marks)

2. $d = 3e - 28$

Make e the subject of the formula.

(Total for question 2 is 2 marks)

3. $f = 7w - 2$

Make w the subject of the formula.

(Total for question 3 is 2 marks)

4. $a = 2q + 5g$

Make g the subject of the formula.

(Total for question 4 is 2 marks)

5. $j = 3e - 2$

Make e the subject of the formula.

(Total for question 5 is 2 marks)

6. $V = 4r + 4s$

Make r the subject of the formula.

(Total for question 6 is 2 marks)

7. Make i the subject of $t = i^2 + 2$.

(Total for question 7 is 2 marks)

8. Make f the subject of $l = m + ft$.

(Total for question 8 is 2 marks)

9. Make g the subject of $x^2 = y^2 + 6gh$.

(Total for question 9 is 2 marks)

10. Make a the subject of $\mathbf{b = \sqrt{\frac{a+2}{5}}}$**.**

(Total for question 10 is 2 marks)

11. Make b the subject of $\mathbf{A = 5b + 10}$**.**

(Total for question 11 is 2 marks)

12. Make y the subject of $\mathbf{x = 6y - 9}$**.**

(Total for question 12 is 2 marks)

13. Make k the subject of $s = \frac{1}{2}k + 8$.

(Total for question 13 is 2 marks)

14. Make h the subject of $o = \frac{3}{5}h - 15$.

(Total for question 14 is 2 marks)

15. Make g the subject of $3b + 5b + 16 = 0$

(Total for question 15 is 2 marks)

16. Make y the subject of $x = y^2 - 4$.

(Total for question 16 is 2 marks)

17. Make d the subject of $z = \frac{4d + 2}{5}$.

(Total for question 17 is 2 marks)

18. Make a the subject of $x = 4(a + 7)$.

(Total for question 18 is 2 marks)

19. **N = 7 + b / f**

Make f the subject of the formula.

(Total for question 19 is 2 marks)

20. **Y** = $\sqrt{\frac{3j}{5}}$

Make j the subject of the formula.

(Total for question 20 is 3 marks)