Q1. Make t the subject of the formula $\quad w = 3 + \sqrt{t}$

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Answer ....

(Total 2 marks)

Q2.

(a) $\quad T = 5n - 2$

n is an **odd** number.

Tick the correct statement.

T is always even $\qquad \square$

T is always odd $\qquad \square$

T could be even or odd $\qquad \square$

Give a reason for your answer

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(2)

(b) Rearrange $\quad T = 5n - 2 \quad$ to make n the subject.

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Answer ....

(2)
(Total 4 marks)

Q3.(a)   Solve $\dfrac{12-x}{3} = 5$

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Answer $x =$ ....

(3)

(b)   Rearrange this formula to make t the subject.

$$s = 3t + 4$$

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Answer $t =$ ....

(2)
(Total 5 marks)

Q4. Make y the subject of $x = \dfrac{2+3y}{y-5}$

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Answer ....

(Total 4 marks)

Q5. Make x the subject of $\dfrac{w - x}{y} = 2x - 3$

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Answer ....

(Total 4 marks)

Q6. Make h the subject of $2(h - y) = 5y + 3$

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Answer ....

(Total 3 marks)

Q7.(a)   Simplify $2x^3y^2 \times 4xy^5$

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Answer ....

(2)

(b)   Factorise fully $20y^2 - 8xy$

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Answer ....

(2)

(c)   Make x the subject of $w = y + \dfrac{x}{r}$

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Answer ....

(2)

(d)   Work out the least common multiple (LCM) of $6xy^2$ and $3x^2y$

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Answer ....

(2)
(Total 8 marks)

Q8. Make y the subject of the formula $\quad 3y - p = h(2 + y)$

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Answer ....

(Total 4 marks)