

1.8 Answers

GCSE Mathematics Algebra, Rearranging Formulae

1.8.1 Solutions to Example (1.4 Example)

$$\begin{array}{ccc} -8 & \left| \begin{array}{l} 7xw + 8 = 3k \\ 7xw = 3k - 8 \\ x = \frac{3k - 8}{7w} \end{array} \right| & -8 \\ \div 7w & & \div 7w \end{array}$$

1.8.2 Solutions to Exercise (1.5 Exercise)

Answer 1

$$x = \frac{7 + b}{a}$$

Answer 2

$$x = \frac{pqr - 3c}{w}$$

Answer 3

$$x = \frac{9 + vw}{4}$$

Answer 4

$$x = \frac{a - z - 5}{4b}$$

Answer 5

$$x = \frac{4z + 1 + y^2}{7}$$

Answer 6

$$x = \frac{7 - 4y}{8}$$

Answer 7

$$x = \frac{c - ab}{3a}$$

Answer 8

$$x = 21z - 7y$$

Answer 9

$$x = \frac{5z - 55}{4}$$

Answer 10

$$x = q(R + 7) - p^2$$

$$\text{or } x = qR + 7q - p^2$$

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Teachers may obtain detailed worked solutions to the exercises by email from MHHShrewsbury@Gmail.com