

Year 7 Algebraic Techniques Worksheet – Answers



1. $Y = 40+d,$ $d=45$

2. $Y= 25+2r,$ $r= 16$

3. Solving Equations by Combining Like Terms

A. $x + 1 + 3x = 29$ Answer: $x = 7$

B. $6 + 4x + x = 46$ Answer: $x = 8$

C. $- 3x + 9 + 4x = 10$ Answer: $x = 1$

D. $- 2x + 8 + 7x = 48$ Answer: $x = 8$

E. $111 = - 6x - 4x - 9$ Answer: $x = 60$

F. $5x + 4 - 2x = 28$ Answer: $x = 8$

G. $4 + x - 2x = -1$ Answer: $x = 5$

H. $-1 + 6x - 4x = 11$ Answer: $x = 6$

I. $- 2 + x - 4x = - 29$ Answer: $x = 9$

J. $- 15 = x - 6x + 10$ Answer: $x = 5$

K. $4 + 5x + x = - 14$ Answer: $x = -3$

L. $5x + 4 - 2x = 22$ Answer: $x = 6$

M. $x + 8 - 4x = - 25$ Answer: $x = 11$

N. $- 8 + 2x - 4x = - 18$ Answer: $x = 5$

O. $- 49 = 3x + 3x - 7$ Answer: $x = -7$

4. $C = 14f + 7$

5. $b = 8a - 12$