

Practical Maths for Plumbing & Heating Students & Apprentices (Level 2 & 3)

WORKSHEET ANSWERS

Unit 8: Algebra for Plumbing and Heating Learners

Set A Simplifying expressions

1. $10a$
2. $7x$
3. $6b$
4. $5y$
5. $5a + 3b$

Set B Expanding brackets

6. $2x + 10$
7. $6a + 3b$
8. $-4x + 8y$
9. $x^2 + 5x + 4$
10. $2a^2 + 5a + 2$

Set C Transposition

11. $t = E/P$
12. $A = F/p$
13. $V = Qt$

14. $h = V/lw$

15. $P = E/t$

Set D Practical problems

16. 90 litres

17. 3 kW

18. 10000 N

19. 2 m

20. 6 minutes

Set E Extra algebra practice

21. $6x + 2y$

22. $-6x + 12y$

23. $x^2 - 7x + 10$

24. $F = pA$

25. $E = Pt$

Set F Applied plumbing and heating formulae

26. 5 minutes

27. 12 kWh

28. 15000 Pa

29. $I = V/A$

30. $t = V/Q$