

Practical Maths for Plumbing & Heating Students and Apprentices

Homework Pack – Answers (Units 1–10)

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Unit 1 – Basic Operations (Answers)

1. 55 m
2. 4500 W
3. 8 litres
4. 77
5. 37

Unit 2 – Fractions (Answers)

1. $\frac{7}{8}$ m
2. $\frac{3}{5}$
3. $\frac{4}{3}$
4. $\frac{1}{6}$
5. 0.75

Unit 3 – Decimals (Answers)

1. 2.0 L/s
2. 3.6
3. 8.8
4. 3.2
5. 0.75

Unit 4 – Percentages (Answers)

1. £180
2. 60 kW
3. 90 psi
4. 170 litres
5. 6

Unit 5 – Ratios (Answers)

1. 24 and 24
2. 40 m and 20 m
3. £54 and £36
4. 45 and 27
5. 50 and 100

Unit 6 – Powers (Indices) (Answers)

1. 32

2. 49

3. 100

4. 64

5. 121

Unit 7 – SI Units (Answers)

1. 800 kPa

2. 5 kW

3. 120 mm

4. 1200 g

5. 0.05 m

Unit 8 – Algebra (Answers)

1. $x = 13$

2. $x = 4$

3. $x = 10$

4. $x = 24$

5. $x = 4$

Unit 9 – Transposition of Formulae (Answers)

1. $v = d/t$

2. $Q = Pt$

3. $R = V/I$

4. $m = E/c^2$

5. $c = y - mx$

Unit 10 – Trigonometry & Pythagoras (Answers)

1. 6

2. 5

3. 15 m

4. 45°

5. 25 m