

TK Maths Tuition

Worksheet 1: Surds Basics — Answer Sheet

SECTION A — Starter Questions

1. (a) 4 (b) 7 (c) 11
2. (a) $2\sqrt{7}$ (b) $3\sqrt{5}$ (c) $7\sqrt{2}$
3. (a) $6\sqrt{2}$ (b) $5\sqrt{2}$ (c) $3\sqrt{2}$

SECTION B — Medium Level

4. (a) $6\sqrt{3}$ (b) $15\sqrt{3}$ (c) $8\sqrt{2}$
5. (a) $3\sqrt{10}$ (b) 2
6. (a) $5\sqrt{3} / 3$ (b) $7\sqrt{5} / 10$

SECTION C — Harder Surd Algebra

7. (a) -1 (b) $9 + 4\sqrt{5}$
8. (a) $2\sqrt{3}$ (b) $13\sqrt{2}$
9. $2 + 2\sqrt{2}$

SECTION D — Worded Surd Problem

10. $3\sqrt{3}$ cm

SECTION E — Challenge

11. (a) $2\sqrt{3}$ (b) 1 (c) xy is rational (1), so not a surd.
12. $1 - \sqrt{5}$

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