

Full Name:

Date:

Short Assessment 1 (Version 1)

Time Allowed: 15 minutes

Total Marks: 18

1. Simplify the following expressions leaving your answers in surd form.

(a) $\sqrt{50}$

(1 marks)

(b) $6\sqrt{45}$

(2 marks)

(c) $10\sqrt{27} - 2\sqrt{12} + \sqrt{75}$

(3 marks)

2. Expand the brackets and simplify the following expressions leaving your answers in surd form.

(a) $(3 + \sqrt{2})(7 - \sqrt{2})$

(3 marks)

(b) $(2 - 3\sqrt{5})(7 - 2\sqrt{5})$

(3 marks)

3. Rationalise the denominators.

(a) $\frac{2}{\sqrt{7}}$

(1 marks)

(b) $\frac{4}{3\sqrt{5}}$

(2 marks)

(c) $\frac{3}{5+\sqrt{2}}$

(3 marks)

- End of Test -