

Full Name:

Date:

Short Assessment 1 (Version 2)

Time Allowed: 15 minutes

Total Marks: 18

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

(a) $\sqrt{32}$

(1 marks)

(b) $4\sqrt{75}$

(2 marks)

(c) $12\sqrt{20} + \sqrt{45} - 2\sqrt{125}$

(3 marks)

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

(a) $(2 - \sqrt{5})(4 - \sqrt{5})$

(3 marks)

(b) $(5 - 2\sqrt{3})(4 + 5\sqrt{3})$

(3 marks)

3. Rationalise the denominators.

(a) $\frac{3}{\sqrt{5}}$

(1 marks)

(b) $\frac{3}{5\sqrt{7}}$

(2 marks)

(c) $\frac{2}{4-\sqrt{3}}$

(3 marks)

- End of Test -