

National 5

Short Task 2

Round all answers to an appropriate degree of accuracy unless specifically stated

1. Rationalise the denominator and simplify.

$$\frac{3}{\sqrt{6}}$$

2. Factorise $x^2 - 6x - 16$

3. Work out $3\frac{3}{4} \div 1\frac{2}{3}$

4. Expand the brackets and simplify

$$(x + 4)(x - 2)(x + 3)$$

5. A meteor has a weight of 5.63×10^{21} kg. A second meteor weighs one twentieth of this one.

Work out the weight of the second meteor. Round your answer to 3 significant figures.

6. At the World Cup Final in 2010, the attendance was. 84 490.

The next World Cup Final in 2014 had an attendance of 74 738.

Work out the percentage decrease in these attendances.