

Powers and Roots

Name:	Class:	Date:
Mark		/ 10 %

1) Evaluate [6]

a) 8^2

b) 2^3

c) 10^5

d) 2^{10}

e) $\sqrt{25}$

f) $\sqrt[3]{1}$

2) Evaluate, rounding your answer to 3 significant figures [1]

$\sqrt[2]{7.55}$

3) Write in index form [3]

a) $7 \times 7 \times 7$

b) $7 \times 7 \times 3 \times 3$

c) $\frac{7 \times 7 \times 7 \times 7 \times 7}{7 \times 7 \times 7}$

Solutions for the assessment Powers and Roots

1) a) 64

b) 8

c) 100000

d) 1024

e) 5

f) 1

2) 2.75

3) a) 7^3

b) $3^2 \times 7^2$

c) 7^2