



NAME:

DATE:

**POWER, SQUARE
ROOT, AND CUBE
ROOT**

K S 3

MATHIMATICS

MARK

GRADE

- ANSWER ALL QUESTIONS
- ALL WORKINGS MUST BE SHOWN
- USE THE CALCULATOR WHEN EXPECTED

1. Find the value of the following.

a) 3^2

(b) seven squared

(c) 9^2

(d) 12 squared

(e) 11^2

(f). 1000^2

2. Find the value of the following.

a) 1^2

(b) ten squared

(c) 3^2

(d) 13 squared

(e) 15^2

(f). 20^2

3. Find the value of the following.

a) $\sqrt{100}$

(b) $\sqrt{16}$

(c) $\sqrt{400}$

4. Arrange these in order, starting with the smallest.

$$5^2 \quad \sqrt{100} \quad 3^2 \quad \sqrt{90}$$

5. $3^2 \times 3^3 = 3$

Write the missing power in the box.

6. Simplify $5^4 \times 5^3$

Circle the correct answer.

$$25^7 \quad 5^{12} \quad 5^7 \quad 25^{12}$$

7. $p^6 \times p^2 = p^x$

Find the value of x

8. Simplify $(7x^3)^2$

Circle the correct answer.

$$49x^5 \quad 14x^6 \quad 14x^5 \quad 49x^6$$

9. Simplify $(2m^4)^3$

10. Simplify $(2xy^3)^4$

