

Name: \_\_\_\_\_

## GCSE MATHS

### Fractional Indices

#### Instructions

- Use black ink or ball-point pen.
- Answer all questions.
- Answer the questions in the spaces provided there may - be more space than you need.
- Diagrams are **NOT** accurately drawn, unless otherwise - indicated.
- You must show all your working out.

#### Information

- The marks for each question are shown in brackets use - this as a guide as to how much time to spend on each question.

#### Advice

- Read each question carefully before you start to answer it.
- Keep an eye on the time.
- Try to answer every question.
- Check your answers if you have time at the end

1. Simplify  $125^{\frac{2}{3}}$

(Total 3 marks)

2. Simplify  $64^{\frac{3}{2}}$

(Total 3 marks)

3. Simplify  $500^{\frac{2}{3}}$

(Total 3 marks)

4. Simplify  $32^{\frac{4}{5}}$

(Total 3 marks)

5. Simplify  $81^{\frac{3}{4}}$

(Total 3 marks)

6. Simplify  $729^{\frac{2}{3}}$

(Total 3 marks)

7. Simplify  $128^{\frac{3}{7}}$

(Total 3 marks)

8. Simplify  $1000^{\frac{2}{3}}$

(Total 3 marks)

9. Simplify  $16^{\frac{5}{4}}$

(Total 3 marks)

10. Simplify  $243^{\frac{4}{5}}$

(Total 3 marks)