

## INDICES PAST PAPER QUESTIONS

1)

Simplify

$$k^8 \times (k^2)^{-3}$$

2

2)

Evaluate

$$16^{\frac{3}{4}}$$

2

3)

Express  $a^2(2a^{-\frac{1}{2}} + a)$  in its simplest form.

2

4)

Simplify

$$6x^{\frac{3}{2}} \div 2x^{\frac{1}{2}}$$

2

5)

Express

$$a^{\frac{2}{3}}(a^{\frac{2}{3}} - a^{-\frac{2}{3}})$$

in its simplest form.

2

6)

Simplify  $\frac{3a^5 \times 2a}{a^2}$

3

7)

Simplify the expression below, giving your answer with a positive power.

$$m^5 \times m^{-8}$$

2