Edexcel Maths GCSE - Indices (F)

- 1 $p^3 \times p^x = p^9$
 - (a) Find the value of x.

$$(7^2)^y = 7^{10}$$

(b) Find the value of y.

$$y = \dots$$
 (1)

 $100^a \times 1000^b$ can be written in the form 10^w

(c) Show that w = 2a + 3b

2 (a) Simplify $m^3 \times m^4$

(1)

(b) Simplify $(5np^3)^3$

(2)

(c) Simplify $\frac{32q^9r^4}{4q^3r}$

(2)

3 Work out the value of $\frac{3^7 \times 3^{-2}}{3^3}$

(2)

- **4** (a) Simplify $n^3 \times n^5$
 - (b) Simplify $\frac{c^3d^4}{c^2d}$

(1)

(c) Solve $\frac{5x}{2} > 7$

(2)

(2)

5 (a) Simplify $c^5 \div c^2$

(1)

(b) Simplify $(d^4)^3$

(1)