## Negative integer indices and the power of zero

Maths

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## Negative integer indices and the power of zero

1. Fill in the blanks to complete the sequence.

2. Evaluate the following.
a) $4^{-1}$
b) $3^{-3}$
c) $1675^{\circ}$
d) $5^{2}+5^{0}$

## Negative integer indices and the power of zero

3. Write each of the following in the form $3^{n}$
a) $\frac{1}{27}$
b) $\frac{1}{3}$
c) 9
d) 1
4. Write each of the following in index form.
a) $\frac{1}{a^{3}}$
b) $\frac{1}{b^{70}}$
c) $r$
d) $\frac{1}{t^{y}}$

Answers

## Negative integer indices and the power of zero

1. Fill in the blanks to complete the sequence.

2. Evaluate the following.
a) $4^{-1}$
$\frac{1}{4}$
b) $3^{-3}$
$\frac{1}{27}$
c) $1675^{\circ}$
d) $5^{2}+5^{0}$ 26

## Negative integer indices and the power of zero

3. Write each of the following in the form $3^{n}$
a) $\frac{1}{27} \quad 3^{-3}$
b) $\frac{1}{3} \quad 3^{-1}$
c) $9 \quad 3^{2}$
d) $1 \quad 30$
b) $\frac{1}{b^{10}} \quad b^{-10}$
4. Write each of the following in index form.
a) $\frac{1}{a^{3}}$
$a^{-3}$
c) $r$
$r^{1}$
d) $\frac{1}{t^{y}}$
$t^{-y}$
