

Mathematics

Indices

Downloadable Resource

Mr Langton



Indices

1. Write the following using index notation:

a) 6×6

b) $6 \times 6 \times 6 \times 6 \times 6$

c) $2 \times 2 \times 2 \times 2 \times 2$

d) Find the product of parts a) and b). Write your answer in index notation.

2. True or false?

a) $9^1 = 9$ b) $5^3 = 25 \times 5$

c) $8^3 = 8 \times 3$ d) $8^4 = 8 \times 8 \times 8 \times 8$

e) $5^3 = 3 \times 3 \times 3 \times 3 \times 3$

3. Place the correct symbol ($<$, $>$, or $=$) between each pair of numbers:

a) 2^3 3^2

b) 2^4 4^2

c) 3^3 5^2

d) 1^8 1^5

4. Match the calculations on the left to the versions written in index form:

a) $2 \times 2 \times 7 \times 7 \times 7$ $3^2 \times 5^2$

b) $5 \times 3 \times 5 \times 3$ $2^2 \times 7^3$

c) $5 \times 5 \times 5 \times 3$ $2^2 \times 7^2$

d) $2 \times 7 \times 2 \times 7$ 3×5^3

