

The Exercises of Indices

Name :.....

Class (click here)

9A

9G

9H

9I

Work the exercise using the laws of indices. Fill the correct indices and the result.

Example:

$$\text{a. } 3^{-2} = \frac{1}{3^2} = \frac{1}{9}$$

$$\text{b. } 2^3 \times 2^2 = 2^5 = 32$$

$$1. \quad 3^3 \times 3 = 3^{\dots} = \dots$$

$$2. \quad 2^3 \times 4 = 2^{\dots} = \dots$$

$$3. \quad 5^6 : 5^4 = 5^{\dots} = \dots$$

$$4. \quad (-2)^8 : (-2)^6 = (-2)^{\dots} = \dots$$

$$5. \quad 2^{-3} = \frac{1}{2^{\dots}} = \frac{1}{\dots}$$

$$6. \quad (4^2)^3 = 4^{\dots} = \dots$$

$$7. \quad (4 \times 5)^2 = 4^{\dots} \times 5^{\dots} = \dots$$

$$8. \quad (4:2)^2 = 4^{\dots}:2^{\dots} = \dots$$

$$9. \quad \left(\frac{1}{4}\right)^2 = \frac{1^{\dots}}{4^{\dots}} = \dots$$