



## Exponents worksheet

$$(i) \frac{2^3 \times 3^4 \times 4}{2 \times 32}$$

$$(ii) [(5^2)^3 \times 5^4] \div 5^7$$

$$(iii) 25^4 \div 5^3$$

$$(iv) \frac{3 \times 7^2 \times 11^8}{21 \times 11^3}$$

$$(v) \frac{3^7}{3^4 \times 3^3}$$

$$(vi) 2^0 + 3^0 + 4^0$$



$$(vii) 2^0 \times 3^0 \times 4^0$$

$$(viii) (3^0 + 2^0) \times 5^0$$

$$(ix) \frac{2^8 \times a^5}{4^3 \times a^3}$$

$$(x) \left( \frac{a^5}{a^3} \right) \times a^8$$

$$(xi) \frac{4^5 \times a^8 b^3}{4^5 \times a^5 b^2}$$

$$(xii) (2^3 \times 2)^2$$



$$(xiii) (-3)^4 \times \left(\frac{5}{3}\right)^4$$

$$(xiv) \left[ \left(\frac{1}{4}\right)^{-3} - \left(\frac{1}{3}\right)^{-3} \right] \div \left(\frac{1}{6}\right)^{-3}$$

$$(xv) \left[ \left(-\frac{3}{4}\right)^{-2} \right]^2$$



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## Answers:

1.  $81/2$
2. 125
3. 3125
4.  $7 \times 11^5$
5. 1
6. 3
7. 1
8. 2
9.  $4a^2$
10.  $a^{10}$
11.  $a^3b$
12. 256
13. -625
14.  $37/216$
15.  $-256/81$