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Math worksheet on *'Prime Factorization as Exponents - 4 Factors (Level 3)'*. Part of a broader unit on *'Factoring and Primes - Intro'*

Learn online: app.mobius.academy/math/units/factoring_and_primes_intro/

1 Show the prime factorization of this number as exponents

16

a 2^4 **b** 2^5 **c** $2^4 \cdot 11$

d 2^3

2 Show the prime factorization of this number as exponents

88

a $2^4 \cdot 11$ **b** $2 \cdot 4 \cdot 11$

c 2^3 **d** $2^3 \cdot 11$

3 Show the prime factorization of this number as exponents

126

a $2 \cdot 3 \cdot 21$ **b** $2 \cdot 3^2 \cdot 5 \cdot 7$

c $2 \cdot 3^2$ **d** $2 \cdot 3^2 \cdot 7$

4 Show the prime factorization of this number as exponents

81

a $3^4 \cdot 5$ **b** 3^4 **c** 3^3

d $3^4 \cdot 13$ **e** $2 \cdot 3^4$

5 Show the prime factorization of this number as exponents

100

a $2^2 \cdot 5^2$ **b** $2^2 \cdot 3 \cdot 5^2$

c $2^2 \cdot 5^2 \cdot 7$ **d** $2^2 \cdot 25$

e $2^2 \cdot 5^2 \cdot 11$

6 Show the prime factorization of this number as exponents

56

a $2 \cdot 4 \cdot 7$ **b** $2^2 \cdot 7$ **c** $2^3 \cdot 7$

d $2^4 \cdot 7$

7 Show the prime factorization of this number as exponents

54

a $2^2 \cdot 3^3$ **b** $2 \cdot 3 \cdot 9$ **c** $2 \cdot 3^2$

d $2 \cdot 3^3$

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