Math worksheet on *'Prime Factorization as Exponents - 4 Factors (Level 2)'*. Part of a broader unit on *'Factoring and Primes - Advanced'*

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1 Show the prime factorization of this number as exponents

54

a $2 \cdot 3 \cdot 9$

b $2^2 \cdot 3^3$

c $2 \cdot 3^3 \cdot 13$

d $2 \cdot 3^3$

e $2 \cdot 3^2$

f 3^3

2 Show the prime factorization of this number as exponents

84

a $2 \cdot 3 \cdot 7$

b $2^2 \cdot 3 \cdot 7 \cdot 11$

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

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

e $2 \cdot 6 \cdot 7$

f $2^2 \cdot 7$

3 Show the prime factorization of this number as exponents

60

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

b $2^2 \cdot 15$

c $2^2 \cdot 3 \cdot 5 \cdot 13$

d $2^2 \cdot 3 \cdot 5 \cdot 11$

e $2^2 \cdot 3 \cdot 5$

f $2 \cdot 3 \cdot 5$

4 Show the prime factorization of this number as exponents

24

a $2^2 \cdot 3$

b $2^4 \cdot 3$

c 2^3

d $2^2 \cdot 6$

e $2 \cdot 4 \cdot 3$

f $2^3 \cdot 3$