Math worksheet on *'Prime Factorization as Exponents - 3 Factors (Level 1)'*. Part of a broader unit on *'Factoring and Primes - Intro'*

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1 Show the prime factorization of this number as exponents

75

a $3 \cdot 5^2$

b $3^2 \cdot 5^2$

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

d $3 \cdot 5^3$

2 Show the prime factorization of this number as exponents

12

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

b $2^2 \cdot 3^2$

c $2^3 \cdot 3$

d $2^2 \cdot 3$

3 Show the prime factorization of this number as exponents

20

a $2^2 \cdot 5$

b $2^2 \cdot 5 \cdot 13$

c $2^2 \cdot 5 \cdot 11$

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

4 Show the prime factorization of this number as exponents

42

a $2 \cdot 3 \cdot 7 \cdot 11$

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

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

d $2 \cdot 3 \cdot 7 \cdot 13$

e $2 \cdot 3 \cdot 7$

5 Show the prime factorization of this number as exponents

8

a $2^3 \cdot 3$

b 2^4

c $2^3 \cdot 5$

d 2^3