



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

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102	1 Show the prime factorization of this number as exponents	a $2 \cdot 3^2 \cdot 17$	b $2 \cdot 3 \cdot 13 \cdot 17$
		c $2 \cdot 3 \cdot 11 \cdot 17$	d $2 \cdot 3 \cdot 7 \cdot 17$
		e $2^2 \cdot 3 \cdot 17$	f $2 \cdot 3 \cdot 17$

125	2 Show the prime factorization of this number as exponents	a $2 \cdot 5^3$	b 5^3	c 5^4
		d $3 \cdot 5^3$	e $5^3 \cdot 11$	f $5^3 \cdot 13$

63	3 Show the prime factorization of this number as exponents	a $3^2 \cdot 7^2$	b $3^2 \cdot 5 \cdot 7$
		c $3^3 \cdot 7$	d $3^2 \cdot 7 \cdot 11$
		e $3^2 \cdot 7 \cdot 13$	f $3^2 \cdot 7$

68	4 Show the prime factorization of this number as exponents	a $2^2 \cdot 7 \cdot 17$	b $2^2 \cdot 5 \cdot 17$
		c $2^3 \cdot 17$	d $2^2 \cdot 17$
		e $2^2 \cdot 13 \cdot 17$	f $2^2 \cdot 11 \cdot 17$

117	5 Show the prime factorization of this number as exponents	a $3^2 \cdot 13$	b $3^2 \cdot 11 \cdot 13$
		c $3^3 \cdot 13$	d $2 \cdot 3^2 \cdot 13$
		e $3^2 \cdot 13^2$	f $3^2 \cdot 5 \cdot 13$

70	6 Show the prime factorization of this number as exponents	a $2 \cdot 3 \cdot 5 \cdot 7$	b $2 \cdot 5 \cdot 7$
		c $2 \cdot 5 \cdot 7^2$	d $2 \cdot 5 \cdot 7 \cdot 11$
		e $2 \cdot 5^2 \cdot 7$	f $2 \cdot 5 \cdot 7 \cdot 13$

52	7 Show the prime factorization of this number as exponents	a $2^2 \cdot 3 \cdot 13$	b $2^2 \cdot 13$
		c $2^2 \cdot 5 \cdot 13$	d $2^2 \cdot 13^2$
		e $2^2 \cdot 11 \cdot 13$	f $2^3 \cdot 13$