math Antics[®] Exercises Name:

Date:

Prime Factorization

1 Use a factor tree to find the prime factorization of 18.	2 Use a factor tree to find the prime factorization of 32.
factor tree may vary	factor tree may vary
answer:	answer:
18 = 2 × 3 × 3	32 = 2 × 2 × 2 × 2 × 2
or $18 = 2 \times 3^2$	or 32 = 2 ⁵
3 Use a factor tree to find the prime factorization of 60.	4 Use a factor tree to find the prime factorization of 91.
factor tree may vary	91 7 × 13
answer:	
60 = 2 x 2 x 3 x 5	answer:
or $60 = 2^2 \times 3 \times 5$	91 = 7 × 13
5 Use a factor tree to find the prime factorization of 126.	6 Use a factor tree to find the prime factorization of 315.
factor tree may vary	factor tree may vary
answer:	answer:
126 = 2 x 3 x 3 x 7	315 = 3 × 3 × 5 × 7
or $126 = 2 \times 3^2 \times 7$	or $315 = 3^2 \times 5 \times 7$

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See Video for step-by-step solutions to each problem.

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