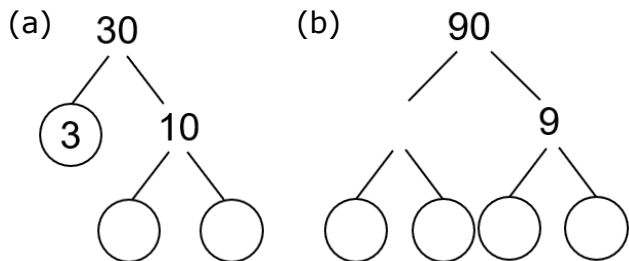


Prime Factors and Factor Trees

Write each of these numbers as a product of its prime factors:

- (a) 6 (b) 8 (c) 15
(d) 12 (e) 14 (d) 20

Complete these factor trees:



By drawing a factor tree, write each of these numbers as a product of its prime factors:

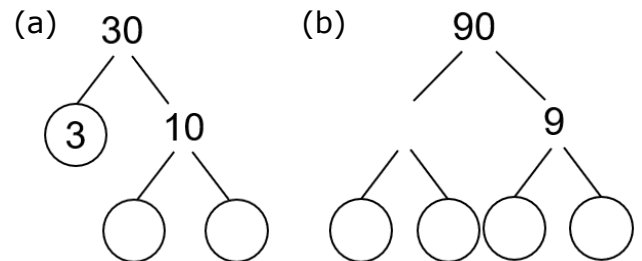
- (a) 56 (b) 60
(c) 75 (d) 78
(e) 80 (f) 115

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As a product of its primes, what number is given by:

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(b) $3 \times 3 \times 5$
(c) $2 \times 5 \times 7$
(d) $2 \times 2 \times 3 \times 3 \times 5$

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For each of these numbers, draw a factor tree and write as a product of its prime factors.

- (a) 9 (b) 25 (c) 36

What do you notice?

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What do you notice?

As a product of its prime factors, $120 = 2 \times 2 \times 2 \times 3 \times 5$. How could you use this information to find all the factors of 120?

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