

Worksheet

04/19/2019

Free on dw-math.com

Problem quickname: 5356

1)

Find the prime factorization of the number indicated.

Quick:
5356

- a) $156 = 2 \cdot 2 \cdot 3 \cdot 13 = 2^2 \cdot 3 \cdot 13$ b) $77 = 7 \cdot 11$ c) $114 = 2 \cdot 3 \cdot 19$
 d) $121 = 11 \cdot 11 = 11^2$ e) $143 = 11 \cdot 13$ f) $169 = 13 \cdot 13 = 13^2$
 g) $133 = 7 \cdot 19$ h) $130 = 2 \cdot 5 \cdot 13$ i) $168 = 2 \cdot 2 \cdot 2 \cdot 3 \cdot 7 = 2^3 \cdot 3 \cdot 7$
 j) $102 = 2 \cdot 3 \cdot 17$

2)

Find the prime factorization of the number indicated.

Quick:
5356

- a) $78 = 2 \cdot 3 \cdot 13$ b) $57 = 3 \cdot 19$ c) $85 = 5 \cdot 17$
 d) $84 = 2 \cdot 2 \cdot 3 \cdot 7 = 2^2 \cdot 3 \cdot 7$ e) $69 = 3 \cdot 23$ f) $51 = 3 \cdot 17$
 g) $74 = 2 \cdot 37$ h) $86 = 2 \cdot 43$ i) $70 = 2 \cdot 5 \cdot 7$ j) $91 = 7 \cdot 13$

3)

Find the prime factorization of the number indicated.

Quick:
5356

- a) $150 = 2 \cdot 3 \cdot 5 \cdot 5 = 2 \cdot 3 \cdot 5^2$ b) $140 = 2 \cdot 2 \cdot 5 \cdot 7 = 2^2 \cdot 5 \cdot 7$
 c) $45 = 3 \cdot 3 \cdot 5 = 3^2 \cdot 5$ d) $126 = 2 \cdot 3 \cdot 3 \cdot 7 = 2 \cdot 3^2 \cdot 7$ e) $70 = 2 \cdot 5 \cdot 7$
 f) $125 = 5 \cdot 5 \cdot 5 = 5^3$ g) $105 = 3 \cdot 5 \cdot 7$ h) $200 = 2 \cdot 2 \cdot 2 \cdot 5 \cdot 5 = 2^3 \cdot 5^2$
 i) $180 = 2 \cdot 2 \cdot 3 \cdot 3 \cdot 5 = 2^2 \cdot 3^2 \cdot 5$ j) $175 = 5 \cdot 5 \cdot 7 = 5^2 \cdot 7$

4)

Find the prime factorization of the number indicated.

Quick:
5356

- a) $195 = 3 \cdot 5 \cdot 13$ b) $153 = 3 \cdot 3 \cdot 17 = 3^2 \cdot 17$ c) $95 = 5 \cdot 19$
 d) $130 = 2 \cdot 5 \cdot 13$ e) $143 = 11 \cdot 13$ f) $180 = 2 \cdot 2 \cdot 3 \cdot 3 \cdot 5 = 2^2 \cdot 3^2 \cdot 5$
 g) $70 = 2 \cdot 5 \cdot 7$ h) $117 = 3 \cdot 3 \cdot 13 = 3^2 \cdot 13$ i) $170 = 2 \cdot 5 \cdot 17$
 j) $165 = 3 \cdot 5 \cdot 11$

Good Luck!