

Worksheet

04/19/2019

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Problem quickname: 5356

1)

Find the prime factorization of the number indicated.

Quick:
5356

- a) $58 = 2 \cdot 29$ b) $74 = 2 \cdot 37$ c) $69 = 3 \cdot 23$ d) $55 = 5 \cdot 11$
 e) $38 = 2 \cdot 19$ f) $91 = 7 \cdot 13$ g) $39 = 3 \cdot 13$ h) $63 = 3 \cdot 3 \cdot 7 = 3^2 \cdot 7$
 i) $75 = 3 \cdot 5 \cdot 5 = 3 \cdot 5^2$ j) $66 = 2 \cdot 3 \cdot 11$

2)

Find the prime factorization of the number indicated.

Quick:
5356

- a) $126 = 2 \cdot 3 \cdot 3 \cdot 7 = 2 \cdot 3^2 \cdot 7$ b) $175 = 5 \cdot 5 \cdot 7 = 5^2 \cdot 7$ c) $70 = 2 \cdot 5 \cdot 7$
 d) $150 = 2 \cdot 3 \cdot 5 \cdot 5 = 2 \cdot 3 \cdot 5^2$ e) $90 = 2 \cdot 3 \cdot 3 \cdot 5 = 2 \cdot 3^2 \cdot 5$
 f) $105 = 3 \cdot 5 \cdot 7$ g) $45 = 3 \cdot 3 \cdot 5 = 3^2 \cdot 5$
 h) $180 = 2 \cdot 2 \cdot 3 \cdot 3 \cdot 5 = 2^2 \cdot 3^2 \cdot 5$ i) $112 = 2 \cdot 2 \cdot 2 \cdot 2 \cdot 7 = 2^4 \cdot 7$
 j) $196 = 2 \cdot 2 \cdot 7 \cdot 7 = 2^2 \cdot 7^2$

3)

Find the prime factorization of the number indicated.

Quick:
5356

- a) $75 = 3 \cdot 5 \cdot 5 = 3 \cdot 5^2$ b) $140 = 2 \cdot 2 \cdot 5 \cdot 7 = 2^2 \cdot 5 \cdot 7$
 c) $130 = 2 \cdot 5 \cdot 13$ d) $182 = 2 \cdot 7 \cdot 13$ e) $65 = 5 \cdot 13$
 f) $165 = 3 \cdot 5 \cdot 11$ g) $110 = 2 \cdot 5 \cdot 11$ h) $198 = 2 \cdot 3 \cdot 3 \cdot 11 = 2 \cdot 3^2 \cdot 11$
 i) $55 = 5 \cdot 11$ j) $150 = 2 \cdot 3 \cdot 5 \cdot 5 = 2 \cdot 3 \cdot 5^2$

4)

Find the prime factorization of the number indicated.

Quick:
5356

- a) $51 = 3 \cdot 17$ b) $82 = 2 \cdot 41$ c) $55 = 5 \cdot 11$ d) $58 = 2 \cdot 29$
 e) $87 = 3 \cdot 29$ f) $69 = 3 \cdot 23$ g) $25 = 5 \cdot 5 = 5^2$ h) $78 = 2 \cdot 3 \cdot 13$
 i) $35 = 5 \cdot 7$ j) $77 = 7 \cdot 11$

Good Luck!