



Factoring numbers into primes factors (1–400)

Grade 6 Factoring Worksheet

Factor the following numbers into prime factors.

Is the number prime?

1) $23 =$ _____ 2) $36 =$ _____

3) $62 =$ _____ 4) $241 =$ _____

5) $267 =$ _____ 6) $79 =$ _____

7) $12 =$ _____ 8) $30 =$ _____

9) $347 =$ _____ 10) $32 =$ _____

11) $171 =$ _____ 12) $127 =$ _____

13) $107 =$ _____ 14) $324 =$ _____

15) $382 =$ _____ 16) $35 =$ _____

17) $89 =$ _____ 18) $218 =$ _____

19) $48 =$ _____ 20) $115 =$ _____



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Factor the following numbers into prime factors.

Is the number prime?

1) $23 = \underline{23 \text{ (Yes)}}$ 2) $36 = \underline{2 \times 2 \times 3 \times 3 \text{ (No)}}$

3) $62 = \underline{2 \times 31 \text{ (No)}}$ 4) $241 = \underline{241 \text{ (Yes)}}$

5) $267 = \underline{3 \times 89 \text{ (No)}}$ 6) $79 = \underline{79 \text{ (Yes)}}$

7) $12 = \underline{2 \times 2 \times 3 \text{ (No)}}$ 8) $30 = \underline{2 \times 3 \times 5 \text{ (No)}}$

9) $347 = \underline{347 \text{ (Yes)}}$ 10) $32 = \underline{2 \times 2 \times 2 \times 2 \times 2 \text{ (No)}}$

11) $171 = \underline{3 \times 3 \times 19 \text{ (No)}}$ 12) $127 = \underline{127 \text{ (Yes)}}$

13) $107 = \underline{107 \text{ (Yes)}}$ 14) $324 = \underline{2 \times 2 \times 3 \times 3 \times 3 \times 3 \text{ (No)}}$

15) $382 = \underline{2 \times 191 \text{ (No)}}$ 16) $35 = \underline{5 \times 7 \text{ (No)}}$

17) $89 = \underline{89 \text{ (Yes)}}$ 18) $218 = \underline{2 \times 109 \text{ (No)}}$

19) $48 = \underline{2 \times 2 \times 2 \times 2 \times 3 \text{ (No)}}$ 20) $115 = \underline{5 \times 23 \text{ (No)}}$