



## Factoring numbers (<500) to prime factors

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### Grade 6 Factoring Worksheet

Factor the following numbers to their prime factors. Is the number prime?

1.  $391 =$  \_\_\_\_\_ 2.  $112 =$  \_\_\_\_\_

3.  $291 =$  \_\_\_\_\_ 4.  $37 =$  \_\_\_\_\_

5.  $108 =$  \_\_\_\_\_ 6.  $411 =$  \_\_\_\_\_

7.  $387 =$  \_\_\_\_\_ 8.  $184 =$  \_\_\_\_\_

9.  $113 =$  \_\_\_\_\_ 10.  $345 =$  \_\_\_\_\_

11.  $4 =$  \_\_\_\_\_ 12.  $160 =$  \_\_\_\_\_

13.  $484 =$  \_\_\_\_\_ 14.  $224 =$  \_\_\_\_\_

15.  $85 =$  \_\_\_\_\_ 16.  $293 =$  \_\_\_\_\_

17.  $451 =$  \_\_\_\_\_ 18.  $459 =$  \_\_\_\_\_

19.  $385 =$  \_\_\_\_\_ 20.  $162 =$  \_\_\_\_\_

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Factor the following numbers to their prime factors. Is the number prime?

1.  $391 = 17 \times 23$  (No) \_\_\_\_\_

2.  $112 = 2 \times 2 \times 2 \times 2 \times 7$  (No) \_\_\_\_\_

3.  $291 = 3 \times 97$  (No) \_\_\_\_\_

4.  $37 = 37$  (Yes) \_\_\_\_\_

5.  $108 = 2 \times 2 \times 3 \times 3 \times 3$  (No) \_\_\_\_\_

6.  $411 = 3 \times 137$  (No) \_\_\_\_\_

7.  $387 = 3 \times 3 \times 43$  (No) \_\_\_\_\_

8.  $184 = 2 \times 2 \times 2 \times 23$  (No) \_\_\_\_\_

9.  $113 = 113$  (Yes) \_\_\_\_\_

10.  $345 = 3 \times 5 \times 23$  (No) \_\_\_\_\_

11.  $4 = 2 \times 2$  (No) \_\_\_\_\_

12.  $160 = 2 \times 2 \times 2 \times 2 \times 2 \times 5$  (No) \_\_\_\_\_

13.  $484 = 2 \times 2 \times 11 \times 11$  (No) \_\_\_\_\_

14.  $224 = 2 \times 2 \times 2 \times 2 \times 2 \times 7$  (No) \_\_\_\_\_

15.  $85 = 5 \times 17$  (No) \_\_\_\_\_

16.  $293 = 293$  (Yes) \_\_\_\_\_

17.  $451 = 11 \times 41$  (No) \_\_\_\_\_

18.  $459 = 3 \times 3 \times 3 \times 17$  (No) \_\_\_\_\_

19.  $385 = 5 \times 7 \times 11$  (No) \_\_\_\_\_

20.  $162 = 2 \times 3 \times 3 \times 3 \times 3$  (No) \_\_\_\_\_