

Factoring numbers (<500) to prime factors

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) _____