

Factoring numbers (<500) to prime factors

Grade 6 Factoring Worksheet

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

1. 416 = _____ 2. 238 = _____

3. 57 = _____ 4. 156 = _____

5. 71 = _____ 6. 313 = _____

7. 458 = _____ 8. 380 = _____

9. 464 = _____ 10. 349 = _____

11. 342 = _____ 12. 379 = _____

13. 352 = _____ 14. 32 = _____

15. 489 = _____ 16. 312 = _____

17. 195 = _____ 18. 87 = _____

19. 46 = _____ 20. 475 = _____

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

1. $416 = 2 \times 2 \times 2 \times 2 \times 2 \times 13$ (No) 2. $238 = 2 \times 7 \times 17$ (No)

3. $57 = 3 \times 19$ (No) 4. $156 = 2 \times 2 \times 3 \times 13$ (No)

5. $71 = 71$ (Yes) 6. $313 = 313$ (Yes)

7. $458 = 2 \times 229$ (No) 8. $380 = 2 \times 2 \times 5 \times 19$ (No)

9. $464 = 2 \times 2 \times 2 \times 2 \times 29$ (No) 10. $349 = 349$ (Yes)

11. $342 = 2 \times 3 \times 3 \times 19$ (No) 12. $379 = 379$ (Yes)

13. $352 = 2 \times 2 \times 2 \times 2 \times 2 \times 11$ (No) 14. $32 = 2 \times 2 \times 2 \times 2 \times 2$ (No)

15. $489 = 3 \times 163$ (No) 16. $312 = 2 \times 2 \times 2 \times 3 \times 13$ (No)

17. $195 = 3 \times 5 \times 13$ (No) 18. $87 = 3 \times 29$ (No)

19. $46 = 2 \times 23$ (No) 20. $475 = 5 \times 5 \times 19$ (No)