



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. $416 = \underline{2 \times 2 \times 2 \times 2 \times 2 \times 13}$ (No) 2. $238 = \underline{2 \times 7 \times 17}$ (No)

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

5. $71 = \underline{71}$ (Yes) 6. $313 = \underline{313}$ (Yes)

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

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

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

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

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

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

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