



Factoring numbers (<500) to prime factors

Grade 6 Factoring Worksheet

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

1. $298 =$ _____ 2. $290 =$ _____

3. $24 =$ _____ 4. $360 =$ _____

5. $336 =$ _____ 6. $407 =$ _____

7. $53 =$ _____ 8. $45 =$ _____

9. $286 =$ _____ 10. $480 =$ _____

11. $467 =$ _____ 12. $146 =$ _____

13. $283 =$ _____ 14. $165 =$ _____

15. $394 =$ _____ 16. $441 =$ _____

17. $197 =$ _____ 18. $13 =$ _____

19. $81 =$ _____ 20. $378 =$ _____

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

1. $298 = 2 \times 149$ (No) _____ 2. $290 = 2 \times 5 \times 29$ (No) _____

3. $24 = 2 \times 2 \times 2 \times 3$ (No) _____ 4. $360 = 2 \times 2 \times 2 \times 3 \times 3 \times 5$ (No) _____

5. $336 = 2 \times 2 \times 2 \times 2 \times 3 \times 7$ (No) _____ 6. $407 = 11 \times 37$ (No) _____

7. $53 = 53$ (Yes) _____ 8. $45 = 3 \times 3 \times 5$ (No) _____

9. $286 = 2 \times 11 \times 13$ (No) _____ 10. $480 = 2 \times 2 \times 2 \times 2 \times 2 \times 3 \times 5$ (No) _____

11. $467 = 467$ (Yes) _____ 12. $146 = 2 \times 73$ (No) _____

13. $283 = 283$ (Yes) _____ 14. $165 = 3 \times 5 \times 11$ (No) _____

15. $394 = 2 \times 197$ (No) _____ 16. $441 = 3 \times 3 \times 7 \times 7$ (No) _____

17. $197 = 197$ (Yes) _____ 18. $13 = 13$ (Yes) _____

19. $81 = 3 \times 3 \times 3 \times 3$ (No) _____ 20. $378 = 2 \times 3 \times 3 \times 3 \times 7$ (No) _____