

Factoring numbers (<500) to prime factors

Grade 6 Factoring Worksheet

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

1. $83 =$ _____ 2. $474 =$ _____

3. $318 =$ _____ 4. $220 =$ _____

5. $292 =$ _____ 6. $214 =$ _____

7. $100 =$ _____ 8. $405 =$ _____

9. $379 =$ _____ 10. $322 =$ _____

11. $498 =$ _____ 12. $104 =$ _____

13. $49 =$ _____ 14. $144 =$ _____

15. $197 =$ _____ 16. $403 =$ _____

17. $8 =$ _____ 18. $187 =$ _____

19. $66 =$ _____ 20. $82 =$ _____

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

1. $83 = \underline{83 \text{ (Yes)}}$ 2. $474 = \underline{2 \times 3 \times 79 \text{ (No)}}$

3. $318 = \underline{2 \times 3 \times 53 \text{ (No)}}$ 4. $220 = \underline{2 \times 2 \times 5 \times 11 \text{ (No)}}$

5. $292 = \underline{2 \times 2 \times 73 \text{ (No)}}$ 6. $214 = \underline{2 \times 107 \text{ (No)}}$

7. $100 = \underline{2 \times 2 \times 5 \times 5 \text{ (No)}}$ 8. $405 = \underline{3 \times 3 \times 3 \times 3 \times 5 \text{ (No)}}$

9. $379 = \underline{379 \text{ (Yes)}}$ 10. $322 = \underline{2 \times 7 \times 23 \text{ (No)}}$

11. $498 = \underline{2 \times 3 \times 83 \text{ (No)}}$ 12. $104 = \underline{2 \times 2 \times 2 \times 13 \text{ (No)}}$

13. $49 = \underline{7 \times 7 \text{ (No)}}$ 14. $144 = \underline{2 \times 2 \times 2 \times 2 \times 3 \times 3 \text{ (No)}}$

15. $197 = \underline{197 \text{ (Yes)}}$ 16. $403 = \underline{13 \times 31 \text{ (No)}}$

17. $8 = \underline{2 \times 2 \times 2 \text{ (No)}}$ 18. $187 = \underline{11 \times 17 \text{ (No)}}$

19. $66 = \underline{2 \times 3 \times 11 \text{ (No)}}$ 20. $82 = \underline{2 \times 41 \text{ (No)}}$