



Factoring numbers (<500) to prime factors

Grade 6 Factoring Worksheet

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

1. $415 =$ _____ 2. $15 =$ _____

3. $232 =$ _____ 4. $371 =$ _____

5. $92 =$ _____ 6. $489 =$ _____

7. $16 =$ _____ 8. $169 =$ _____

9. $358 =$ _____ 10. $105 =$ _____

11. $14 =$ _____ 12. $435 =$ _____

13. $327 =$ _____ 14. $308 =$ _____

15. $247 =$ _____ 16. $10 =$ _____

17. $345 =$ _____ 18. $50 =$ _____

19. $304 =$ _____ 20. $382 =$ _____

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

1. $415 = \underline{5 \times 83 \text{ (No)}}$ 2. $15 = \underline{3 \times 5 \text{ (No)}}$

3. $232 = \underline{2 \times 2 \times 2 \times 29 \text{ (No)}}$ 4. $371 = \underline{7 \times 53 \text{ (No)}}$

5. $92 = \underline{2 \times 2 \times 23 \text{ (No)}}$ 6. $489 = \underline{3 \times 163 \text{ (No)}}$

7. $16 = \underline{2 \times 2 \times 2 \times 2 \text{ (No)}}$ 8. $169 = \underline{13 \times 13 \text{ (No)}}$

9. $358 = \underline{2 \times 179 \text{ (No)}}$ 10. $105 = \underline{3 \times 5 \times 7 \text{ (No)}}$

11. $14 = \underline{2 \times 7 \text{ (No)}}$ 12. $435 = \underline{3 \times 5 \times 29 \text{ (No)}}$

13. $327 = \underline{3 \times 109 \text{ (No)}}$ 14. $308 = \underline{2 \times 2 \times 7 \times 11 \text{ (No)}}$

15. $247 = \underline{13 \times 19 \text{ (No)}}$ 16. $10 = \underline{2 \times 5 \text{ (No)}}$

17. $345 = \underline{3 \times 5 \times 23 \text{ (No)}}$ 18. $50 = \underline{2 \times 5 \times 5 \text{ (No)}}$

19. $304 = \underline{2 \times 2 \times 2 \times 2 \times 19 \text{ (No)}}$ 20. $382 = \underline{2 \times 191 \text{ (No)}}$