

Practice**Factors and Greatest Common Factor**

State whether each number is prime or composite. If the number is composite, find its prime factorization.

1. 10

2. 16

3. 20

4. 52

5. 96

6. 71

7. 24

8. 108

9. 36

10. 225

11. 144

12. 384

13. 286

14. 357

15. 299

Factor each expression completely. Do not use exponents.

16. $36x^2y$

17. $169x^3y^3$

18. $81b^2c^3$

19. $-52ab^3$

20. $72a^4c^2$

21. $-32abc^3$

Find the GCF of the given monomials.

22. 42, 60

23. 36, 64

24. 80, 28

25. 88, 40

26. 24, 81

27. 700, 1000

28. 24, 336

29. 90, 480

30. 17, 85

31. $18abc, 54ab^2$

32. $12x^3y^2, 44xy^3$

33. $32xyz, 48xy^4$

34. $18m^2n^2, 66m^3$

35. $72r^2s^2, 36rs^3$

36. $18xp^2, 48x^4$

37. 16, 24, 48

38. 18, 45, 63

39. 12, 30, 114