

Answers for Chapter 2 Test, p. 114

1. 10

2. -24

3. -27

4. 63

5. 3^4

6. 11^3

7. $2^4 \cdot 3$

8. $2^2 \cdot 3 \cdot 5$

9. 11^2

Exercises 10-13. Answers may vary. Samples are given.

10. 1, 3, 9; 54, 81, 108

11. 1, 2, 3; 72, 108, 144

12. 1, 2, 4; 200, 300, 400

13. 1, 5, 25; 50, 75, 100

14. 8

15. 5

16. 3

17. 4

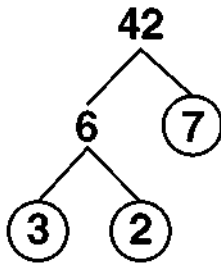
18. a. false

b. false

c. false

d. true

19.



Exercises 20-23. Answers may vary. Samples are given.

20. $\frac{2}{6}, \frac{3}{9}$

21. $-\frac{5}{8}, -\frac{10}{16}$

22. $-\frac{8}{10}, -\frac{12}{15}$

23. $\frac{4}{7}, \frac{8}{14}$

24. $\frac{2}{3}$

25. $\frac{1}{2}$

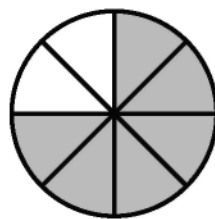
26. $\frac{3}{8}$

27. $\frac{1}{6}$

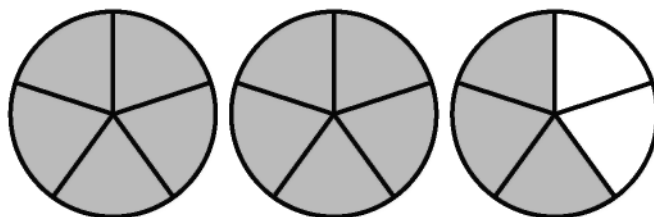
28. Write the numerator and denominator in prime factorization form. Find the product of the common factors and divide the numerator and denominator by that product.

Answers for Chapter 2 Test, p. 114 (cont.)

29. Answers may vary. Sample:



$$\frac{3}{4}$$



$$2\frac{3}{5}$$

30. $\frac{3}{8}$

31. $<$

32. $<$

33. $<$

34. a. 8 crew members

b. 21 gold, 25 silver

35. $\frac{17}{3}$

36. $\frac{29}{6}$

37. $\frac{87}{10}$

38. $\frac{17}{5}$

39. $2\frac{2}{5}$

40. $3\frac{1}{3}$

41. 4

42. $1\frac{2}{5}$

43. 0.125

44. 0.4

45. 1.25

46. 0.32

47. $\frac{1}{5}$

48. $1\frac{3}{10}$

49. $\frac{7}{20}$

50. $3\frac{31}{50}$

51. 1.23×10^7

52. 7.5462×10^4

53. 21,000

54. 8,000,000,000

55. $-2.\bar{5}$, -2.4 , $-2\frac{1}{5}$, $\frac{24}{10}$, 2.56