

Chapter 02: Fractions

COMPLETION

1. Reduce the following fraction to lowest terms.

$$54/81 = \underline{\hspace{2cm}}$$

ANS: $2/3$

PTS: 1 MSC: Practice Problems

2. Reduce the following fraction to lowest terms.

$$105/135 = \underline{\hspace{2cm}}$$

ANS: $7/9$

PTS: 1 MSC: Practice Problems

3. Reduce the following fraction to lowest terms.

$$39/65 = \underline{\hspace{2cm}}$$

ANS: $3/5$

PTS: 1 MSC: Practice Problems

4. Change the following improper fraction to a whole or mixed number.

$$325/16 = \underline{\hspace{2cm}}$$

ANS: $20 \frac{5}{16}$

PTS: 1 MSC: Practice Problems

5. Change the following improper fraction to a whole or mixed number.

$$1,500/100 = \underline{\hspace{2cm}}$$

ANS: 15

PTS: 1 MSC: Practice Problems

6. Change the following improper fraction to a whole or mixed number.

$$193/62 = \underline{\hspace{2cm}}$$

ANS: $3 \frac{7}{62}$

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7. Change the following mixed number to an improper fraction.

$$12 \frac{1}{8} = \underline{\hspace{2cm}}$$

ANS: $\frac{97}{8}$

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8. Change the following mixed number to an improper fraction.

$$29 \frac{2}{3} = \underline{\hspace{2cm}}$$

ANS: $\frac{89}{3}$

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9. Perform the indicated operation and reduce to lowest terms.

$$\frac{1}{12} + \frac{6}{12} + \frac{5}{12} = \underline{\hspace{2cm}}$$

ANS: 1

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10. Perform the indicated operation and reduce to lowest terms.

$$\frac{3}{8} - \frac{1}{3} = \underline{\hspace{2cm}}$$

ANS: $\frac{1}{24}$

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11. Perform the indicated operation and reduce to lowest terms.

$$\frac{4}{5} \cdot \frac{5}{16} = \underline{\hspace{2cm}}$$

ANS: $\frac{1}{4}$

PTS: 1 MSC: Practice Problems

12. Perform the indicated operation and reduce to lowest terms.

$$\frac{1}{12} \cdot \frac{1}{15} = \underline{\hspace{2cm}}$$

ANS: $\frac{1}{180}$

PTS: 1 MSC: Practice Problems

13. Perform the indicated operation and reduce to lowest terms.

$$\frac{3}{5} \cdot 5 = \underline{\hspace{2cm}}$$

ANS: $\frac{3}{25}$

PTS: 1 MSC: Practice Problems

14. Perform the indicated operation and reduce to lowest terms.

$$\frac{1}{100} \cdot \frac{1}{200} = \underline{\hspace{2cm}}$$

ANS: 2

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15. Indicate which fraction is the largest.

$$\frac{1}{100}, \frac{1}{150}, \frac{1}{200}: \underline{\hspace{2cm}}$$

ANS: $\frac{1}{100}$

PTS: 1 MSC: Practice Problems

16. Arrange the following fractions from smallest to largest.

$$\frac{1}{6}, \frac{1}{5}, \frac{1}{8}, \frac{1}{4}, \frac{1}{3}: \underline{\hspace{3cm}}$$

ANS: $\frac{1}{8}, \frac{1}{6}, \frac{1}{5}, \frac{1}{4}, \frac{1}{3}$

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17. Perform the indicated operation with fractions. Reduce to lowest terms as indicated.

$$\frac{1}{5} + \frac{1}{2} + \frac{1}{4} = \underline{\hspace{2cm}}$$

ANS: $\frac{19}{20}$

PTS: 1 MSC: Practice Problems

18. Perform the indicated operation with fractions. Reduce to lowest terms as indicated.

$$16 \frac{5}{6} - 14 \frac{3}{8} = \underline{\hspace{2cm}}$$

ANS: $2 \frac{11}{24}$

PTS: 1 MSC: Practice Problems

19. Perform the indicated operation with fractions. Reduce to lowest terms as indicated.

$$6 \frac{10}{12} \cdot \frac{15}{3} = \underline{\hspace{2cm}}$$

ANS: $34 \frac{1}{6}$

PTS: 1 MSC: Practice Problems

20. Perform the indicated operation with fractions. Reduce to lowest terms as indicated.

$$56 \div \frac{9}{20} = \underline{\hspace{2cm}}$$

ANS: $124 \frac{4}{9}$

PTS: 1 MSC: Practice Problems

21. Indicate the largest number in the following set.

$$\frac{5}{6}, \frac{5}{8}: \underline{\hspace{2cm}}$$

ANS: $\frac{5}{6}$

PTS: 1 MSC: Practice Problems

22. Indicate the largest number in the following set.

$$\frac{1}{30}, \frac{1}{4}, \frac{1}{150}: \underline{\hspace{2cm}}$$

ANS: $\frac{1}{4}$

PTS: 1 MSC: Practice Problems

23. Reduce the following fraction to lowest terms.

$$\frac{34}{102} = \underline{\hspace{2cm}}$$

ANS: $\frac{1}{3}$

PTS: 1 MSC: Practice Problems

24. Reduce the following fraction to lowest terms.

$$\frac{60}{1200} = \underline{\hspace{2cm}}$$

ANS: $\frac{1}{20}$

PTS: 1 MSC: Practice Problems

25. Express the following improper fraction as a mixed number. Reduce to lowest terms.

$$\frac{24}{18} = \underline{\hspace{2cm}}$$

ANS: $1 \frac{1}{3}$

PTS: 1 MSC: Practice Problems

26. Express the following improper fraction as a mixed number. Reduce to lowest terms.

$$15/13 = \underline{\hspace{2cm}}$$

ANS: $1 \frac{2}{13}$

PTS: 1 MSC: Practice Problems

27. Change the following mixed number to an improper fraction.

$$9 \frac{1}{9} = \underline{\hspace{2cm}}$$

ANS: $82/9$

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28. Change the following mixed number to an improper fraction.

$$6 \frac{7}{10} = \underline{\hspace{2cm}}$$

ANS: $67/10$

PTS: 1 MSC: Practice Problems

29. Perform the indicated operation with fractions. Reduce to lowest terms as indicated.

$$6 \frac{5}{16} + 5 \frac{3}{16} = \underline{\hspace{2cm}}$$

ANS: $11 \frac{1}{2}$

PTS: 1 MSC: Practice Problems

30. Perform the indicated operation with fractions. Reduce to lowest terms as indicated.

$$4 \frac{3}{10} + 2 \frac{2}{10} = \underline{\hspace{2cm}}$$

ANS: $6 \frac{1}{2}$

PTS: 1 MSC: Practice Problems

31. Perform the indicated operation with fractions. Reduce to lowest terms as indicated.

$$3 \frac{1}{5} + 3 \frac{2}{3} + 2 \frac{1}{2} = \underline{\hspace{2cm}}$$

ANS: $12 \frac{11}{30}$

PTS: 1 MSC: Practice Problems

32. Perform the indicated operation with fractions. Reduce to lowest terms as indicated.

$$1 \frac{2}{4} + 3 \frac{1}{3} = \underline{\hspace{2cm}}$$

ANS: 4 5/6

PTS: 1 MSC: Practice Problems

33. Perform the indicated operation with fractions. Reduce to lowest terms as indicated.

$$15/21 - 10/21 = \underline{\hspace{2cm}}$$

ANS: 5/21

PTS: 1 MSC: Practice Problems

34. Perform the indicated operation with fractions. Reduce to lowest terms as indicated.

$$8/16 - 1/4 = \underline{\hspace{2cm}}$$

ANS: 1/4

PTS: 1 MSC: Practice Problems

35. Perform the indicated operation with fractions. Reduce to lowest terms as indicated.

$$14 - 5/9 = \underline{\hspace{2cm}}$$

ANS: 13 4/9

PTS: 1 MSC: Practice Problems

36. Perform the indicated operation with fractions. Reduce to lowest terms as indicated.

$$6 \frac{1}{4} - 2 \frac{5}{8} = \underline{\hspace{2cm}}$$

ANS: 3 5/8

PTS: 1 MSC: Practice Problems

37. Perform the indicated operation with fractions. Reduce to lowest terms as indicated.

$$5 \frac{1}{3} - 1 \frac{7}{12} = \underline{\hspace{2cm}}$$

ANS: 3 3/4

PTS: 1 MSC: Practice Problems

38. A client received 2 1/2 ounces (oz) of medication at breakfast and 2 1/3 oz at lunch. How many oz of medication has the client received? _____

ANS: 4 5/6 oz

PTS: 1 MSC: Practice Problems

39. A client weighed $147\frac{1}{2}$ pounds (lb), lost $6\frac{3}{4}$ lb due to illness. How many pounds does the client now weigh? _____

ANS: $140\frac{3}{4}$ lb

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40. A client drank $\frac{2}{3}$ of a 12 ounce (oz) can of seltzer water. How many ounces of seltzer water did the client drink? _____

ANS: 8 oz

PTS: 1 MSC: Practice Problems

41. A client is supposed to drink a 10 ounce (oz) bottle of magnesium citrate before an X-ray study. The client was able to drink 4 oz. How much of the magnesium citrate remains? (Express answer as a fraction reduced to lowest terms.) _____

ANS: $\frac{2}{5}$ bottle

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42. The nurse is instructed to give a client $\frac{2}{3}$ of a cup of solution. If 1 cup = 240 milliliters (mL), how many mL should the nurse administer? _____

ANS: 160 mL

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