

Henke's Med-Math Dosage Calculation Preparation & Administration 9th Edition Test Bank

CHAPTER 1, Arithmetic Needed for Dosage

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 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 7/62

PTS: 1 MSC: Practice Problems

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

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

ANS: 97/8

PTS: 1 MSC: Practice Problems

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

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

ANS: 89/3

PTS: 1 MSC: Practice Problems

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

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

ANS: 1

PTS: 1 MSC: Practice Problems

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

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

ANS: $1/24$

PTS: 1 MSC: Practice Problems

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

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

ANS: $1/4$

PTS: 1 MSC: Practice Problems

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

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

ANS: $1/180$

PTS: 1 MSC: Practice Problems

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

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

ANS: $3/25$

PTS: 1 MSC: Practice Problems

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

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

ANS: 2

PTS: 1 MSC: Practice Problems

15. Indicate which fraction is the largest.

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

ANS: $1/100$

PTS: 1 MSC: Practice Problems

16. Arrange the following fractions from smallest to largest.

$$1/6, 1/5, 1/8, 1/4, 1/3: \underline{\hspace{2cm}}$$

ANS: $1/8, 1/6, 1/5, 1/4, 1/3$

PTS: 1 MSC: Practice Problems

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

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

ANS: $19/20$

PTS: 1 MSC: Practice Problems

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

$$16 \cdot 5/6 \cdot 14 \cdot 3/8 = \underline{\hspace{2cm}}$$

ANS: $2 \cdot 11/24$

PTS: 1 MSC: Practice Problems

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

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

ANS: $34 \cdot 1/6$

PTS: 1 MSC: Practice Problems

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

$$56 \cdot 9/20 = \underline{\hspace{2cm}}$$

ANS: $124 \cdot 4/9$

PTS: 1 MSC: Practice Problems

21. Indicate the largest number in the following set.

$5/6, 5/8$: _____

ANS: $5/6$

PTS: 1 MSC: Practice Problems

22. Indicate the largest number in the following set.

$1/30, 1/4, 1/150$: _____

ANS: $1/4$

PTS: 1 MSC: Practice Problems

23. Reduce the following fraction to lowest terms.

$34/102 =$ _____

ANS: $1/3$

PTS: 1 MSC: Practice Problems

24. Reduce the following fraction to lowest terms.

$60/1200 =$ _____

ANS: $1/20$

PTS: 1 MSC: Practice Problems

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

$24/18 =$ _____

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

PTS: 1 MSC: Practice Problems

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

$15/13 =$ _____

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

PTS: 1 MSC: Practice Problems

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

$9 \frac{1}{9} =$ _____

ANS: $82/9$

PTS: 1 MSC: Practice Problems

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

$6 \frac{7}{10} =$ _____

ANS: $67/10$

PTS: 1 MSC: Practice Problems

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

$6 \frac{5}{16} + 5 \frac{3}{16} =$ _____

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

PTS: 1 MSC: Practice Problems

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

$4 \frac{3}{10} + 2 \frac{2}{10} =$ _____

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

PTS: 1 MSC: Practice Problems

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

$3 \frac{1}{5} + 3 \frac{2}{3} + 2 \frac{1}{2} =$ _____

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: $4 \frac{5}{6}$

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.

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

ANS: $13 \frac{4}{9}$

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: $3 \frac{5}{8}$

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

PTS: 1 MSC: Practice Problems

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

ANS: $4 \frac{5}{6}$ 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

PTS: 1 MSC: Practice Problems

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

PTS: 1 MSC: Practice Problems

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?

42. Change the following to a decimal. Carry division three places as indicated. Do not round off.

$$5/18 = \underline{\hspace{2cm}}$$

ANS: 0.277

PTS: 1 MSC: Practice Problems

43. Change the following decimal to a fraction. Reduce to lowest terms if indicated.

$$7.025 = \underline{\hspace{2cm}}$$

ANS: $7 \frac{1}{40}$

PTS: 1 MSC: Practice Problems

44. Change the following decimal to a fraction. Reduce to lowest terms if indicated.

$$0.0001 = \underline{\hspace{2cm}}$$

ANS: $1/10,000$

PTS: 1 MSC: Practice Problems

45. Identify the decimal with the largest value in the following set.

$$0.6, 0.128 = \underline{\hspace{2cm}}$$

ANS: 0.6

PTS: 1 MSC: Practice Problems

46. Identify the decimal with the largest value in the following set.

$$0.7, 0.67, 0.86: \underline{\hspace{2cm}}$$

ANS: 0.86

PTS: 1 MSC: Practice Problems

47. Round off the following decimal to the nearest tenth.

$$3.539 = \underline{\hspace{2cm}}$$

ANS: 3.5

PTS: 1 MSC: Practice Problems

48. Round off the following decimal to the nearest thousandth.

$$0.6253 = \underline{\hspace{2cm}}$$

ANS: 0.625

PTS: 1 MSC: Practice Problems

9. Perform the indicated operation with decimals.

$$49.1 - 0.009 = \underline{\hspace{2cm}}$$

ANS: 64.091

PTS: 1 MSC: Practice Problems

50. Perform the indicated operation with decimals.

$$0.123 + 0.4 = \underline{\hspace{2cm}}$$

ANS: 0.523

PTS: 1 MSC: Practice Problems

51. Perform the indicated operation with decimals.

$$0.46 - 0.17 = \underline{\hspace{2cm}}$$

ANS: 0.0782

PTS: 1 MSC: Practice Problems

52. Divide the following decimal. Express answer to nearest hundredth.

$$0.1 \overline{)0.375} = \underline{\hspace{2cm}}$$

ANS: 0.27

PTS: 1 MSC: Practice Problems

53. Change the following to a decimal.

1.25% = _____

ANS: 0.0125

PTS: 1 MSC: Practice Problems

54. Indicate the largest number in the following set.

0.75, 0.749: _____

ANS: 0.75

PTS: 1 MSC: Practice Problems

55. Indicate the largest number in the following set.

0.001, 1.25, 1.09: _____

ANS: 1.25

PTS: 1 MSC: Practice Problems

56. Perform the indicated operation with decimals.

$0.98 + 0.76 =$ _____

ANS: 1.74

PTS: 1 MSC: Practice Problems

57. Perform the indicated operation with decimals.

$9.123 - 6.055 =$ _____

ANS: 3.068

PTS: 1 MSC: Practice Problems

58. Perform the indicated operation with decimals.

$60 \div 0.012 =$ _____

ANS: 5,000

PTS: 1 MSC: Practice Problems

59. Perform the indicated operation with decimals.

$66.66 \times 3.33 =$ _____

ANS: 221.9778

PTS: 1 MSC: Practice Problems

60. Change the following decimal to a fraction. Reduce to lowest terms if indicated.

0.010 = _____

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

ANS: 160 mL

Chapter 2 Metric and Household Systems of Measurement

MULTIPLE CHOICE

1. 0.6 mg is equivalent to:

- a. 600 mcg c. 60 mcg
- b. 6 mcg d. 0.0006 mcg

ANS: A PTS: 1 MSC: General

2. The metric prefix for 0.001 is:

- a. micro. c. kilo.