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 = _____
ANS: 2/3
PTS: 1 MSC: Practice Problems
2. Reduce the following fraction to lowest terms.
105/135 = _____
ANS: 7/9
PTS: 1 MSC: Practice Problems
3. Reduce the following fraction to lowest terms.
39/65 = _____
ANS: 3/5
PTS: 1 MSC: Practice Problems
4. Change the following improper fraction to a whole or mixed number.
325/16 = _____
ANS: 20 5/16
PTS: 1 MSC: Practice Problems
5. Change the following improper fraction to a whole or mixed number.
1,500/100 = _____
ANS: 15
PTS: 1 MSC: Practice Problems
6. Change the following improper fraction to a whole or mixed number.
193/62 = _____
ANS: 3 7/62
PTS: 1 MSC: Practice Problems
7. Change the following mixed number to an improper fraction.
12 1/8 = _____
ANS: 97/8
PTS: 1 MSC: Practice Problems
8. Change the following mixed number to an improper fraction.
29 2/3 = _____
ANS: 89/3
PTS: 1 MSC: Practice Problems
9. Perform the indicated operation and reduce to lowest terms.
1/12 + 6/12 + 5/12 = ____
ANS: 1
PTS: 1 MSC: Practice Problems
10. Perform the indicated operation and reduce to lowest terms.
3/8 1/3 = _____

ANS: 1/24
PTS: 1 MSC: Practice Problems
11. Perform the indicated operation and reduce to lowest terms.
4/5 5/16 = _____
ANS: 1/4
PTS: 1 MSC: Practice Problems
12. Perform the indicated operation and reduce to lowest terms.
1/12 1/15 = _____
ANS: 1/180
PTS: 1 MSC: Practice Problems
13. Perform the indicated operation and reduce to lowest terms.
3/5 5 = _____
ANS: 3/25
PTS: 1 MSC: Practice Problems
14. Perform the indicated operation and reduce to lowest terms.
1/100 1/200 = _____
ANS: 2
PTS: 1 MSC: Practice Problems
15. Indicate which fraction is the largest.
1/100, 1/150, 1/200: _____
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: _____
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 = _____
ANS: 19/20
PTS: 1 MSC: Practice Problems
18. Perform the indicated operation with fractions. Reduce to lowest terms as indicated.
16 5/6 14 3/8 = ____
ANS: 2 11/24
PTS: 1 MSC: Practice Problems
19. Perform the indicated operation with fractions. Reduce to lowest terms as indicated.
6 10/12 15/3 = _____
ANS: 34 1/6
PTS: 1 MSC: Practice Problems
20. Perform the indicated operation with fractions. Reduce to lowest terms as indicated.
56 9/20 = _____
ANS: 124 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 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 2/13
PTS: 1 MSC: Practice Problems
27. Change the following mixed number to an improper fraction.
9 1/9 = _____
ANS: 82/9
PTS: 1 MSC: Practice Problems
28. Change the following mixed number to an improper fraction.
6 7/10 = _____
ANS: 67/10
PTS: 1 MSC: Practice Problems
29. Perform the indicated operation with fractions. Reduce to lowest terms as indicated.
6 5/16 + 5 3/16 = _____
ANS: 11 1/2
PTS: 1 MSC: Practice Problems
30. Perform the indicated operation with fractions. Reduce to lowest terms as indicated.
4 3/10 + 2 2/10 = _____
ANS: 6 1/2
PTS: 1 MSC: Practice Problems
31. Perform the indicated operation with fractions. Reduce to lowest terms as indicated.
3 1/5 + 3 2/3 + 2 1/2= _____
ANS: 12 11/30
PTS: 1 MSC: Practice Problems

32. Perform the indicated operation with fractions. Reduce to lowest terms as indicated.
1 2/4 + 3 1/3 = _____
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 = _____
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 = _____
ANS: 1/4
PTS: 1 MSC: Practice Problems
35. Perform the indicated operation with fractions. Reduce to lowest terms as indicated.
14 5/9 = _____
ANS: 13 4/9
PTS: 1 MSC: Practice Problems
36. Perform the indicated operation with fractions. Reduce to lowest terms as indicated.
6 1/4 2 5/8 = ____
ANS: 3 5/8
PTS: 1 MSC: Practice Problems
37. Perform the indicated operation with fractions. Reduce to lowest terms as indicated.
5 1/3 1 7/12 = _____
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 1/2 pounds (lb), lost 6 3/4 lb due to illness. How many pounds does the client now weigh? ____
ANS: 140 3/4 lb
PTS: 1 MSC: Practice Problems
40. A client drank 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: 2/5 bottle
PTS: 1 MSC: Practice Problems
42. The nurse is instructed to give a client 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 = _____
ANS: 0.277
PTS: 1 MSC: Practice Problems
43. Change the following decimal to a fraction. Reduce to lowest terms if indicated.
7.025 = _____
ANS: 7 1/40
PTS: 1 MSC: Practice Problems
44. Change the following decimal to a fraction. Reduce to lowest terms if indicated.
0.0001 = _____
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 = _____
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: _____
ANS: 0.86
PTS: 1 MSC: Practice Problems
47. Round off the following decimal to the nearest tenth.
3.539 = _____
ANS: 3.5
PTS: 1 MSC: Practice Problems
48. Round off the following decimal to the nearest thousandth.
0.6253 = _____
ANS: 0.625
PTS: 1 MSC: Practice Problems
9. Perform the indicated operation with decimals.
49.1 0.009 = _____
ANS: 64.091
PTS: 1 MSC: Practice Problems
50. Perform the indicated operation with decimals.
0.123 + 0.4 = _____
ANS: 0.523
PTS: 1 MSC: Practice Problems
51. Perform the indicated operation with decimals.
0.46 0.17 = _____
ANS: 0.0782
PTS: 1 MSC: Practice Problems
52. Divide the following decimal. Express answer to nearest hundredth.
0.1 0.375 = _____

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 0.012 = _____
ANS: 5,000
PTS: 1 MSC: Practice Problems
59. Perform the indicated operation with decimals.
66.66 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: 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.

b. centi. d. milli.
ANS: D PTS: 1 MSC: General
3. 60 mg is equivalent to:
a. 6 g c. 0.06 g
b. 0.6 g d. 0.0006 g
ANS: C PTS: 1 MSC: General
4. Three and one-half kilograms
a. 3.5 kg c. 3 kg
b. 3.05 kg d. 3.5 kg
ANS: D PTS: 1 MSC: General
5. Eight-tenths of a milliliter
a. 8/10 ml c. 0.8 mL
b. .8 mL d. ml 0.8
ANS: C PTS: 1 MSC: General
6. Six-tenths of a liter
a. 0.6 L c. 0.60 L
b. 6/10 L d. 0.60 l
ANS: A PTS: 1 MSC: General
7. One hundred forty-five micrograms
a. 145 mg c. 145.0 mg
b. 0.145 mcg d. 145 mcg
ANS: D PTS: 1 MSC: General
MULTIPLE RESPONSE
1. The metric system (select all that apply):
a. is also called the fractional system.
b. is used most often in medication administration.
c. has units of measure such as grain and drop.
d. is based on the decimal system.
e. is gradually replacing the apothecary and household systems.
f. expresses quantities using Arabic numbers and decimals.
ANS: B, D, E PTS: 1 MSC: General
2. The liter is (select all that apply):
a. a unit of volume in the metric system.
b. smaller than a milliliter.
c. equivalent to 1,000 milliliters.
d. abbreviated using a small case l.
e. abbreviated with a capital L.
f. the basic unit for weight.
ANS: A, C, E PTS: 1 MSC: General
COMPLETION
1. Complete the following sentence with the correct word(s).
The units of the metric system are as follows: _____ (length), _____ (volume), and _____ (weight).