

## Chapter 01: Math Review

Turner: Mulholland's The Nurse, The Math, The Meds, 4th Edition

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### ESSAY

1. Label states for children  $\geq 8$  years of age, give 10 mL of medication. Write out the meaning of the symbol.

ANS:

Greater than or equal to

2. For children with a fever  $< 39^\circ \text{C}$ , give 1 chewable Tylenol tablet. Write out the meaning of the symbol.

ANS:

Less than

3. Hold the medication for a pulse *less than* 50. Write the symbol for the italicized words.

ANS:

<

4. Write the whole number 10 as a fraction. Do not change the value.

ANS:

$$\frac{10}{1}$$

5. Edit 90.400 to remove the trailing zeroes.

ANS:

90.4

6. Write 9 as whole number. Indicate the *implied* decimal place with a decimal point.

ANS:

9.

7. Write the whole number 100 as a fraction that equals 1.

ANS:

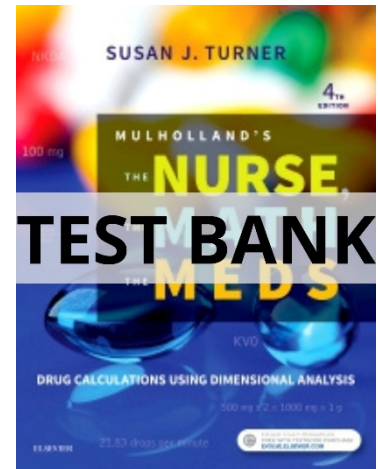
$$\frac{100}{100}$$

8. Write the sum of 9 and 7.

ANS:

16

9. Write the product of 8 and 5.



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ANS:  
40

10. Write three factors of the number 12, other than the number 1.

ANS:  
3, 4, 6

11. Write four common factors of the number 12 and 24, other than the number 1.

ANS:  
3, 4, 6, 12

12. Write the product of 9 and 5.

ANS:  
45

13. Write four multiples of the number 4.

ANS:  
4, 8, 12, 16

14. Which number is the multiplier in  $8 \times \frac{1}{2}$ ?

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

15. Write out  $2^5$  to illustrate how it would be calculated. Include the result.

ANS:  
 $2 \times 2 \times 2 \times 2 \times 2 = 32$

16. Write the square of 6.

ANS:  
36

17. Write the square root of 25.

ANS:  
5

18. Which number is the base in  $10^4$ ?

ANS:  
10

19. Which number is the exponent in  $5^6$ ?

ANS:

6

20. Write 3 divided by 4 as a fraction.

ANS:

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

21. Label the numerator and denominator of  $\frac{5}{6}$ .

ANS:

$$\frac{5}{6} = \frac{\text{numerator}}{\text{denominator}}$$

22. If six packages of syringes sell for \$240, what is the unit value of one package?

ANS:

\$40

23. Write out 0.125 as it would be spoken aloud.

ANS:

One hundred twenty-five thousandths

24. Which is larger: 0.07 or 0.008?

ANS:

0.07

25. Divide 293.5 by 10 by moving the decimal place.

ANS:

293.5 → 29.35

26. Multiply 84.9 by 100 by moving the decimal place.

ANS:

84.9 → 8490

27. Round 8.326 to the nearest hundredth.

ANS:

8.33

28. Round 2.67 to the nearest tenth.

ANS:

2.7

29. Round 89.28 to the nearest whole number.

ANS:

89

30.  $\frac{1}{8} \div \frac{1}{4} = \underline{\hspace{2cm}}$ .

ANS:

$$\frac{1}{8} \times \frac{4}{1} = \frac{4}{8} = \frac{1}{2}$$

31. Change 0.04 to a fraction.

ANS:

$$\frac{4}{100}$$

32. Change  $\frac{50}{100}$  to a decimal.

ANS:

$$\frac{50}{100} = \frac{1}{2} = 0.5$$

33. Multiply  $0.12 \times 10$ .

ANS:

1.2

34. Divide 25 by 0.5.

ANS:

50

35. Which is greater:  $\frac{3}{4}$  or  $\frac{2}{3}$ ?

ANS:

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

36. Which is smaller:  $\frac{1}{8}$  or  $\frac{1}{10}$ ?

ANS:

$$\frac{1}{10}$$

37. Write  $\frac{2}{3}$  as a percentage.

ANS:

$$66\frac{2}{3}\%$$

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38. Change the improper fraction  $\frac{6}{5}$  to a mixed number.

ANS:

$$1\frac{1}{5}$$

39. Change the mixed number  $2\frac{3}{4}$  to an improper fraction.

ANS:

$$\frac{11}{4}$$

40. Find the lowest common denominator for  $\frac{1}{2} + \frac{3}{4} + \frac{1}{12}$ .

ANS:

$$12$$

41. Write two equivalent fractions for  $\frac{3}{4}$ .

ANS:

$$\frac{6}{8} \text{ and } \frac{9}{12}$$

42. Which is greater: 0.25 or 0.5?

ANS:

$$0.5$$

43. Which is smaller: 2.13 or 0.8998?

ANS:

$$0.8998$$

44. Find the greatest common factor of the numerator and denominator in  $\frac{12}{36}$ .

ANS:

$$12$$

45. Reduce the fraction  $\frac{50}{75}$  to lowest terms.

ANS:

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

46. Add the following fractions:  $\frac{1}{4} + \frac{1}{5}$ .

ANS:

$$\frac{5}{20} + \frac{4}{20} = \frac{9}{20}$$

47. Subtract:  $\frac{1}{2} - \frac{1}{6}$

ANS:

$$\frac{3}{6} - \frac{1}{6} = \frac{2}{6} = \frac{1}{3}$$

48. Multiply:  $\frac{2}{3} \times \frac{3}{4}$  (use cancellation).

ANS:

$$\frac{2^1}{3^1} \times \frac{3^1}{4^2} = \frac{1}{2}$$

49. Multiply:  $\frac{3}{8} \times \frac{2}{9}$  (use cancellation).

ANS:

$$\frac{3^1}{8^4} \times \frac{2^1}{9^3} = \frac{1}{12}$$

50. Divide:  $\frac{1}{8} \div \frac{1}{4}$ .

ANS:

$$\frac{1}{8} \div \frac{1}{4} = \frac{1}{8} \times \frac{4}{4} = \frac{4}{8} = \frac{1}{2}$$

51. For children <5 years of age, give 2 mg of medication. Write out the meaning of the symbol.

ANS:

Less than

52. For children with a fever  $\geq 100^\circ$  F, administer one children's chewable Tylenol tablet. Write out the meaning of the symbol.

ANS:

Greater than or equal to

53. Hold the medication for a systolic blood pressure *less than* 100/60. Write the symbol for the italicized phrase.

ANS:

<

54. Write the whole number 2 as a fraction. Do not change the value.

ANS:

$$\frac{2}{1}$$

55. Edit 7.000 to remove the trailing zeroes.

ANS:

7.~~000~~ → 7

56. Write 3 as a whole number. Indicate the implied decimal place with a decimal point.

ANS:

3

57. Write the whole number 50 as a fraction that equals 1.

ANS:

$$\frac{50}{50} = 1$$

58. Write the Arabic numerals for XV.

ANS:

15

59. Write the Roman numeral for 10.

ANS:

X

60. Write the sum of 5 and 3.

ANS:

8

61. Write the product of 8 and 7.

ANS:

56

62. Write three factors of the number 15 other than the number 1.

ANS:

3, 5, 15

63. Write three common factors of 30 and 45 other than the number 1.

ANS:

3, 5, 15

64. Write the product of 2 and 6.

ANS:

12

65. Write four multiples of the number 5.

ANS:

5 ( $\times 1$ ), 10 ( $\times 2$ ), 15 ( $\times 3$ ), 20 ( $\times 4$ )

66. Which number is the multiplier in  $7 \times \frac{3}{4}$ ?

ANS:

$\frac{3}{4}$

67. Write out  $4^3$  to illustrate how it would be calculated. Include the result.

ANS:

$4 \times 4 \times 4 = 64$

68. Write the square of 5.

ANS:

$5^2 = 25$

69. Write the square root of 9.

ANS:

$\sqrt{9} = 3$

70. Which number is the base in  $3^7$ ?

ANS:

3

71. Which number is the exponent in  $5^2$ ?

ANS:

2

72. Write 2 *divided by* 5 as a fraction.

ANS:

$\frac{2}{5}$

73. Label the numerator and denominator of  $\frac{3}{4}$ .

ANS:

$\frac{3}{4}$  numerator  
denominator

74. If five cartons sell for \$50, what is the unit value of a carton?

ANS:

$$\frac{50}{5} = \$10 \text{ per carton}$$

75. Write out 0.072 as it would be spoken aloud.

ANS:

Seventy two thousandths

76. Which is larger: 0.089 or 0.08?

ANS:

0.089

77. Divide 374.4 by 10 by moving the decimal place.

ANS:

37.44 (move the decimal one place to the left)

78. Multiply 6.02 by 100 by moving the decimal place.

ANS:

602 (move the decimal two places to the right)

79. Round 6.735 to the nearest hundredth.

ANS:

6.74

80. Round 0.273 to the nearest tenth.

ANS:

0.3

81. Round 29.09 to the nearest whole number.

ANS:

29

82.  $\frac{1}{4} \div 1\frac{1}{5} = =$  \_\_\_\_\_.

ANS:

$$\frac{1}{4} \div \frac{6}{5} = \frac{1}{4} \times \frac{5}{6} = \frac{5}{24}$$

83. Change 0.13 to a fraction.

ANS:

$$\frac{13}{100}$$

84. Change  $\frac{25}{100}$  to a decimal.

ANS:  
0.25

85. Multiply:  $0.05 \times 10$ .

ANS:  
0.5 (move the decimal one place to the right)

86. Divide:  $150 \div 0.75$ .

ANS:  
200

$$\begin{array}{r} 200 \\ 0.75 \overline{) 150.00} \\ \underline{-150} \\ 0 \end{array}$$

87. Which is greater:  $\frac{3}{5}$  or  $\frac{2}{3}$ ?

ANS:  
 $\frac{2}{3} = 0.666$ , which is greater than  $\frac{3}{5}$  (0.6)

88. Which is smaller:  $\frac{1}{20}$  or  $\frac{1}{18}$ ?

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

89. Write  $\frac{7}{8}$  as a percentage.

ANS:  
 $\begin{array}{r} .875 \\ 8 \overline{) 7.00} = 87\frac{1}{2}\% \end{array}$

90. Change the improper fraction  $\frac{7}{3}$  to a mixed number.

ANS:  
 $2\frac{1}{3}$

91. Change the mixed number  $2\frac{3}{4}$  to an improper fraction.