

Chapter 01: Math Review

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

ESSAY

1. Label states for children ≥ 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.

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 \rightarrow 29.35

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

ANS:

84.9 \rightarrow 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 0.12×10 .

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:

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

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: