

Mathematics for Veterinary Technicians
Test #1 – Form D
100 Points Total

Name: _____ Date: _____

Show your work!!!!

Please change the following to common fractions. Please be sure to provide your final answer in the simplest form and circle it.

1. 8.198

2. 0.64

Real World Applications:

3. You are performing an inventory of hospital medications. You find 6 bottles of Cephalexin that are each – three fifth, one half, three-fourth, one third, five sixth and three sixth full. You want to combine them. How many bottles will you have. Your final answer needs to be the simplest form.

4. There are 84 bags of food in the storage room. What is the current fraction for the following compared to our total bags in lowest terms:
a. 16 bags of dog food

b. 24 bags of cat food

5. Simplify the following fractions

$$\frac{168}{248}$$

$$\frac{148}{342}$$

$$\frac{56}{932}$$

$$\frac{72}{144}$$

$$\frac{32}{388}$$

$$\frac{8}{614}$$

6. Convert these improper fractions to mixed numbers

$$\frac{452}{48}$$

$$\frac{112}{24}$$

$$\frac{180}{15}$$

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7. Perform the following mathematical problems and be sure to reduce them to the lowest terms.

a. $2\frac{3}{4} + 5\frac{5}{9}$

b. $\frac{11}{12} \times \frac{3}{4} \times \frac{6}{7}$

c. $\frac{3}{4} \times \frac{6}{21}$

d. $\frac{17}{20} - \frac{5}{12}$

e. $\frac{9}{10} \div \frac{2}{3}$

f. $4\frac{3}{8} \div 2\frac{1}{3}$

g. $8\frac{3}{4} \times -6\frac{2}{3}$

h. $25\frac{1}{9} + 12\frac{1}{6} + 2\frac{3}{4}$

i. $\frac{5}{8} + \frac{3}{10} + \frac{1}{6}$

j. $1\frac{4}{5} - 4\frac{1}{4}$

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8. Describe as a fraction.

- a. _____ three hundred twenty five thousandths
- b. _____ twelve sixteenths
- c. _____ eighty nine hundredths

9. Convert the following to scientific notation:

- a. 1,412,000 _____ . _____ x 10
- b. 35,102.9 _____ . _____ x 10
- c. 1,001 _____ . _____ x 10
- d. 0.0528 _____ . _____ x 10
- e. 0.00004051 _____ . _____ x 10

10. Convert the following numbers to fractions. Your final answer needs to be the simplest form.

- a. 0.456
- b. 0.0125
- c. 32%
- d. 212%

11. Write the Roman Numerals as base 10 numbers

- a. XCIV
- b. MMCCCXLVII
- c. CMIX
- d. CDXXXV

12. Convert the numbers to Roman Numerals

- a. 75
- b. 98
- c. 555
- d. 1855

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13. Convert the following numbers to fractions. Your final answer needs to be the simplest form.

a. $\frac{2}{3} \times \frac{1}{8} + \frac{7}{8}$

b. $\frac{7}{8} - \frac{3}{4} \times \frac{2}{3}$

c. $\frac{7}{9} \div 5 \times \frac{8}{9}$

d. $8 - 3\frac{1}{8} + 2\frac{1}{6}$

14. Dr. Thomas needs to have Susan's medication refilled. The dose was 2 tablets orally three times a day for 14 days and then $2\frac{1}{2}$ tablets orally once a day for 7 days. What is the total number of tablets that you need to send home for the correct dosage of medication? Please provide your answer in the simplest fraction form possible.

15. Compute the answers:

a. 5.25×1.4

b. -6.05×8.20

16. Compute the answers to two decimal places:

a. $8.35 \div 0.3125$

b. $-7.25 \div 8.88$