

Name: Key

Date: _____

Chapter 3 Test Study Guide

Evaluate.

1) $83.781 + 4.19 =$

87.971

2) $106 - 6.784 =$

99.216

Multiply.

3) $0.004 \times 0.11 =$

0.00044

4) $4.21 \times 3.2 =$

13.472

5) $32 \times 0.012 =$

0.384

6) $8.09 \times 567 =$

4,587.03

Divide. Write answers using remainders if necessary.

7) $56,432 \div 61 = \underline{925 \text{ R}7}$

8) $204,755 \div 482 = \underline{424 \text{ R}387}$

(60)

$$\begin{array}{r}
 \text{XX}925 \\
 61 \overline{) 56432} \\
 \underline{-549} \\
 153 \\
 \underline{-122} \\
 302 \\
 \underline{-305} \\
 7
 \end{array}$$

(500)

$$\begin{array}{r}
 \text{XXX}424 \\
 482 \overline{) 204755} \\
 \underline{-1928} \\
 0495 \\
 \underline{-464} \\
 1215 \\
 \underline{-1197} \\
 18 \\
 \underline{-18} \\
 0
 \end{array}$$

Divide. Round to the nearest tenth if necessary.

9) $41.5 \div 9 = \underline{4.6}$

10) $0.1968 \div 0.082 = \underline{2.4}$

X 4.6

$$\begin{array}{r}
 \text{X}4.6 \\
 9 \overline{) 41.500} \\
 \underline{-36} \\
 55 \\
 \underline{-54} \\
 100 \\
 \underline{-90} \\
 10 \\
 \underline{-9} \\
 1
 \end{array}$$

196.8 ÷ 82

$$\begin{array}{r}
 \text{XX}2.4 \\
 82 \overline{) 196.8} \\
 \underline{-164} \\
 328 \\
 \underline{-328} \\
 0
 \end{array}$$

Divide. Round to the nearest hundredth if necessary.

11) $1.5 \overline{) 3.218} = \underline{2.15}$

12) $54 \overline{) 0.18} = \underline{300}$

Handwritten work for problem 11:
$$\begin{array}{r} \times 2.145 \\ 15 \overline{) 32.1800} \\ \underline{-30} \\ -21 \\ \underline{-15} \\ 68 \\ \underline{-60} \\ 80 \\ \underline{-75} \\ 50 \end{array}$$

Handwritten work for problem 12:
$$\begin{array}{r} 20 \\ 18 \overline{) 5400} \\ \underline{-54} \\ 000 \end{array}$$

For problems 13-21, use mental math to find the product or quotient.

$\times 0.01$ move left
 $\div 0.01$ move right

13) $13.1 \times 10 = 131$

14) $21.38 \times 0.01 = 0.2138$

15) $2157.3 \div 1000 = 2.1573$

16) $37.803 \times 0.001 = 0.037803$

17) $1.051 \div 0.001 = 1,051$

18) $14.29 \div 100 = 0.1429$

19) $17.94 \times 1000 = 17,940$

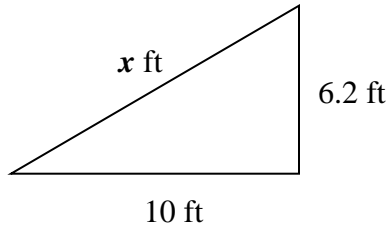
20) $0.034 \div 0.01 = 3.4$

21) The price of one nail is \$0.01. The price for a whole box of nails is \$36.80. How many nails does the box contain?

$36.80 \div 0.01 = 3680 \text{ nails}$

Solve.

21) If the perimeter of the triangle is 28.65 feet, what is the length of the unknown side?



$$x + 6.2 + 10 = 28.65$$

$$x + 16.2 = 28.65$$

$$\begin{array}{r} 28.65 \\ - 16.20 \\ \hline 12.45 \end{array}$$

$$x = 12.45$$

Check

$$\begin{array}{r} 16.20 \\ + 12.45 \\ \hline 28.65 \checkmark \end{array}$$

22) If you earn \$9.15 an hour, how much will you be paid for 18 hours of work?

$$\begin{array}{r} 9.15 \\ \times 18 \\ \hline + 7320 \\ 9150 \\ \hline 16470 \end{array}$$

2 Jumps

$$\$164.70$$

23) Jeff runs an average mile in 7.3 minutes when he exercises after work. How many minutes would it take him to complete a 10K, or 6.2 miles?

$$\begin{array}{r} 7.3 \\ \times 6.2 \\ \hline + 146 \\ 4380 \\ \hline 4526 \end{array}$$

2 Jumps

$$45.26 \text{ min}$$

24) Working at an assembly plant, Audrey made 326 items in five days. How many items did she average per day?

$$326 \div 5$$

65.2 items per day

$$\begin{array}{r}
 \times 65.2 \\
 5 \overline{) 326.0} \\
 \underline{-30} \\
 26 \\
 \underline{-25} \\
 10
 \end{array}$$

25) Eva worked 37.5 hours last week and earned \$324.48. How much did she make per hour, rounded to the nearest cent?

$$324.48 \div 37.5 = 8.6528$$

$$\approx \$8.65$$

$$3244.8 \div 375$$

$$\begin{array}{r}
 \times \times 8.6528 \\
 375 \overline{) 3244.8000} \\
 \underline{-3000} \\
 2448 \\
 \underline{-2250} \\
 1980 \\
 \underline{-1875} \\
 1050 \\
 \underline{-1050} \\
 0
 \end{array}$$

26) A cardboard box can hold a total of 26 pounds. If a bottle of lotion weighs 0.4 pounds, how many bottles can the box hold?

$$\begin{array}{r}
 \times 65 \\
 4 \overline{) 260} \\
 \underline{-24} \\
 20 \\
 \underline{-20} \\
 0
 \end{array}$$

$$26 \div 0.4 =$$

$$260 \div 4 = 65$$

65 bottles