

Fraction and Decimal Computation Unit Test

PMI 6th Grade Math

Name _____

- 1) Write the correct answer on the line provided.

$$856.283 - 38.97 = \underline{\hspace{2cm}}$$

- 2) Select an answer for each blank to make the statement true.

$$\underline{\hspace{2cm}} \left(1\frac{2}{5} \text{ or } 2\frac{2}{5}\right) \div \underline{\hspace{2cm}} \left(\frac{3}{4} \text{ or } 1\frac{3}{4}\right) = \frac{4}{5}$$

- 3) Circle the correct answer.

$$83.4 + 3.288 + 137.4 + 28$$

- a. 15.802
- b. 158.02
- c. 5.524
- d. 252.088

- 4) Circle the correct answer(s). Select all that apply.

Which of the following are equivalent to the problem $72 \times (64.15)$?

- a. $(70 + 2) \times 64.15$
- b. $(70 \times 2) \times 64.15$
- c. $72 \times (64 + 0.15)$
- d. $70 + 2 \times (64 + 0.15)$

- 5) Write the correct answer on the line provided.

$$2\frac{2}{5} \div \frac{3}{4} = \underline{\hspace{2cm}}$$

6) Circle the correct answer.

$$488.24 - 239.783$$

- a. 728.023
- b. 248.466
- c. 248.457
- d. 248.463

7) Write the correct answer on the line provided.

$$45.11 \div 0.09 = \underline{\hspace{2cm}}$$

8) Write the correct answer on the line provided.

$$3\frac{4}{9} \div 1\frac{1}{3} = \underline{\hspace{2cm}}$$

9) Circle the correct answer.

$$57.2 \times 0.0038$$

- a. 21.736
- b. 0.21736
- c. 2.1736
- d. 0.021736

10) Circle the correct answer.

How many $\frac{2}{5}$ ounce servings are in $2\frac{1}{4}$ ounces?

- a. $\frac{9}{10}$
- b. $5\frac{5}{8}$
- c. $2\frac{1}{10}$
- d. $1\frac{1}{9}$

11) Write the correct answer on the line provided.

$$476.8 \times 0.008 = \underline{\hspace{2cm}}$$

12) Circle the correct answer.

$$89.99 \div 3.3$$

- a. $27.2\bar{6}$
- b. 27.2697
- c. $27.2\bar{69}$
- d. 27.3

13) Circle the correct answer.

Jennifer is making a sweater out of yarn. One roll is 97.562 in. long. The other is 54 in. long.

How much yarn does she have?

- a. 151.562 in.
- b. 97.616 in.
- c. 976.16 in.
- d. 43.562 in.

14) Solve the problem, showing all work. Partial credit may be given.

Create a story problem for $\frac{2}{3} \div \frac{1}{5}$.

- a. Use a visual fraction model to show the quotient.
- b. Evaluate the quotient without models. Show your work.
- c. Explain the relationship of the quotient to the divisor and dividend using a number sentence to represent the situation.

15) Write the correct answer on the line provided.

Thomas had \$84. He spent \$7.27. How much money does he have left? _____

16) Write the correct answer on the line provided.

A lighting company sells flashlights for \$8.72. Last month they sold 344 flashlights. The company's monthly goal is to earn \$3,488. How far were they from their goal? _____

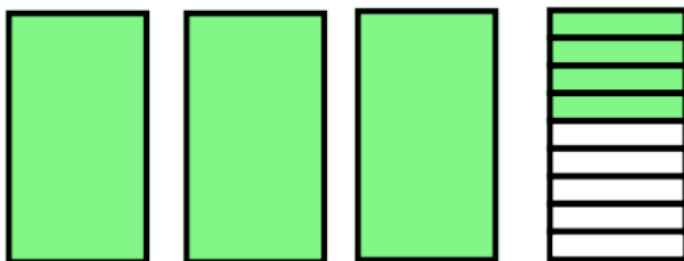
17) Select an answer for each blank to make the statement true.

A packaging company puts pencils into bags to be sold, and then places the bags in boxes to be shipped to stores. If a box contains 2,262 pencils, which are split into _____ (78 or 87) bags, there are _____ (0.29, 2.9, 29, or 290) pencils in each bag.

18) Write the correct answer on the line provided.

$195.6 + 29.83 + 4.852 =$ _____

19) Use the model to demonstrate, and write your answer. $3\frac{4}{9} \div \frac{1}{2} =$ _____



20) Solve the problem, showing all work. Partial credit may be given.

Laura is mailing packages to some friends. The packages weigh 2.8 pounds, 5.75 pounds, and 10.125 pounds. The post office charges a flat rate of \$2.95 for any package up to 5 pounds. Any additional weight will be charged at a rate of \$0.85/lb.

- a. Find the total weight of the packages.
- b. Find the total cost of mailing all the packages. Round your answer to the nearest cent.
- c. Show all of your work to support your answers.

Decimal Computation Unit Re-Test

PMI 6th Grade Math

Name _____

- 1) Write the correct answer on the line provided.

$$783.569 - 59.97 = \underline{\hspace{2cm}}$$

- 2) Select an answer for each blank to make the statement true.

$$\underline{\hspace{2cm}} \left(2\frac{1}{8} \text{ or } 1\frac{3}{4} \right) \div \underline{\hspace{2cm}} \left(1\frac{1}{4} \text{ or } \frac{5}{8} \right) = 1\frac{7}{10}$$

- 3) Circle the correct answer.

$$57.9 + 8.443 + 757.2 + 78$$

- a. 2960.5
- b. 9015.43
- c. 16672
- d. 901.543

- 4) Circle the correct answer(s). Select all that apply.

Which of the following are equivalent to the problem $91 \times (14.35)$?

- a. $91 \times (14 \times 0.35)$
- b. $91 \times (14 + 0.35)$
- c. $(90 + 1) \times 14.35$
- d. $(90 \times 1) \times 14.35$

- 5) Write the correct answer on the line provided.

$$3\frac{1}{4} \div \frac{2}{3} \underline{\hspace{2cm}}$$

6) Circle the correct answer.

$$778.65 - 357.8$$

- a. 420.85
- b. 421.85
- c. 7428.7
- d. 74.287

7) Write the correct answer on the line provided.

$$63.28 \div 0.09 = \underline{\hspace{2cm}}$$

8) Write the correct answer on the line provided.

$$2\frac{1}{5} \div 3\frac{2}{3} = \underline{\hspace{2cm}}$$

9) Circle the correct answer.

$$57.6 \times 0.0028$$

- a. 1.16128
- b. 11.6128
- c. 0.16128
- d. 116.128

10) Circle the correct answer.

How many $\frac{3}{8}$ ounce servings are in $3\frac{1}{5}$ ounces?

- a. $1\frac{1}{5}$
- b. $8\frac{8}{15}$
- c. $\frac{5}{6}$
- d. $\frac{15}{128}$

11) Write the correct answer on the line provided.

$$825.6 \times 0.004 = \underline{\hspace{2cm}}$$

12) Circle the correct answer.

$$44.4 \div 1.8$$

- a. 24.67
- b. $24.\bar{6}$
- c. $24.\overline{667}$
- d. 24.7

13) Circle the correct answer.

Sasha is making some shelves that are 75.5 cm long. If the wood she is using is 226.5 cm long, how many pieces will she need to make six shelves?

- a. 2
- b. 0.2
- c. 20
- d. 0.02

14) Solve the problem, showing all work. Partial credit may be given.

Create a story problem for $\frac{5}{6} \div \frac{2}{3}$.

- a. Use a visual fraction model to show the quotient.
- b. Evaluate the quotient without models. Show your work.
- c. Explain the relationship of the quotient to the divisor and dividend using a number sentence to represent the situation.

15) Write the correct answer on the line provided.

Sonya has a goal to run 73 meters each week. She ran 8.71 m today. How many more meters does she need to run to reach her goal?

16) Write the correct answer on the line provided.

After Lawrence deposits his paycheck into his account, he has a balance of eight hundred and sixty-six dollars and nine cents. He deposits an additional \$79.37. What is his new balance?

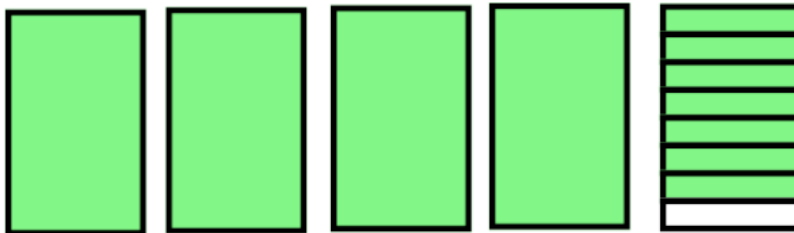
17) Select an answer for each blank to make the statement true.

The hot plate bar at the local grocery store sells pre-cooked meals for ____ (\$7.76 or \$8.60) a pound, a 0.95 pound plate of food costs ____ (\$8.17 or \$81.7 or \$817).

18) Write the correct answer on the line provided.

$$347.2 + 43.19 + 7.397 = \underline{\hspace{2cm}}$$

19) Use the model to demonstrate and write your answer. $4\frac{7}{8} \div \frac{1}{3} = \underline{\hspace{2cm}}$

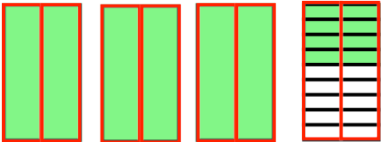


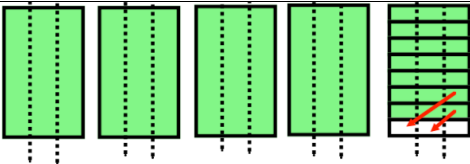
20) Solve the problem, showing all work. Partial credit may be given.

Chris bought some used books for \$4.95. He paid \$0.50 for each hardcover book and \$0.35 for the paperbacks. He bought fewer than 8 books at each price.

- a. How many books did Chris buy in total?
- b. How many hardcover books did Chris buy?
- c. Show all of your work to support your answers.

ANSWER KEY

Test	
1	817.313
2	$1\frac{2}{5} \div 1\frac{3}{4} = \frac{4}{5}$
3	D
4	A,C
5	$3\frac{1}{5}$
6	C
7	$501.\bar{2}$
8	$2\frac{7}{12}$
9	B
10	B
11	3.8144
12	C
13	A
14	a. Answers may vary b. $3\frac{1}{3}$ c. $3\frac{1}{3} \times \frac{1}{5} = \frac{2}{3}$
15	\$76.73
16	\$488.32
17	78, 29
18	230.282
19	 6 $\frac{8}{9}$
20A	$2.8 + 5.75 + 10.125 = 18.675$ lbs.
B	$2.95 + 2.95 + (0.85 \times 0.75) + 2.95 + (0.85 \times 5.125) = \13.84

Re-Test	
1	723.599
2	$2\frac{1}{8} \div 1\frac{1}{4} = 1\frac{7}{10}$
3	D
4	B,C
5	$4\frac{7}{8}$
6	A
7	$703.\bar{1}$
8	$\frac{3}{5}$
9	C
10	B
11	3.3024
12	B
13	A
14	a. Answers may vary b. $1\frac{1}{4}$ c. $1\frac{1}{4} \times \frac{2}{3} = \frac{5}{6}$
15	64.29 m
16	\$945.46
17	\$8.60 and \$8.17
18	397.787
19	 14 $\frac{5}{8}$
20	$7 \times 0.35 = \$2.45$ $5 \times 0.50 = \$2.50$ $\$2.45 + \$2.50 = \$4.95$ $5 + 7 = 12$ books total
B	5 hardcover books at \$0.50