Student: _____	**Instructor:** Pearson School	**Assignment:** Topic 7 Test
Date: _____	**Course:** digits - grade 6	
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1. You and a friend are buying lemons and sugar for a lemonade stand. You spend $14.49 to buy lemons and your friend spends $8.66 to buy sugar. How much does it cost to make the lemonade?

It costs $ ☐ to make lemonade.
(Type a whole number or a decimal.)

2. You are on a 9.5-mile run and have already run 1.91 miles. How many more miles do you need to run?

You need to run ☐ more miles.
(Type a whole number or a decimal.)

3. **Think About the Process** A cell phone company is offering a $75 instant rebate on any phone that costs more than $150. You decide to purchase a phone that costs $163.46. How would you write the subtraction to find the actual cost of the phone? How much will you have to pay for the phone?

How would you set up the subtraction to find the actual cost of the phone?

- ○ A. Subtract the rebate from the cost of the phone by writing the subtraction in a column and aligning the decimal points. Add two zeros as place holders after the decimal point of the rebate.
- ○ B. Subtract the rebate from the cost of the phone by writing the subtraction in a column and aligning the numbers from right to left. Add three zeros as place holders after the decimal point of the rebate.
- ○ C. Subtract the rebate from the cost of the phone by writing the subtraction in a column and aligning the numbers from right to left.
- ○ D. Subtract the rebate from the cost of the phone by writing the subtraction in a column and aligning the decimal points. Add two zeros as place holders in front of the decimal point of the rebate.

You will have to pay $ ☐ for your phone.
(Type a whole number or a decimal.)

4. Find the sum.

$6.18 + 35.5 + 0.916 + 7$

The sum is ☐. (Type a whole number or a decimal.)

5. Find the product.

3.2×0.02

$3.2 \times 0.02 =$ ☐ (Type a whole number or a decimal.)

6. What is the area of the rectangular bottom of the cardboard box shown?

The area is ☐ in.^2.
(Type a whole number or a decimal.)

7. A square piece of fabric has side length 2.3 cm. Find the area of the piece of fabric.

The area is ☐ cm^2.
(Type a whole number or a decimal.)

8. You buy 3.9 pounds of trail mix. The mix costs $2.69 per pound. What is the total price for the trail mix?

The total price is $☐.
(Do not round until the final answer. Then round to the nearest cent as needed.)

9. Find the quotient.

$958 \div 18$

$958 \div 18 =$ ☐ R ☐

10. Find the quotient.

$1{,}298 \div 12$

$1{,}298 \div 12 =$ ☐ R ☐

11. A construction company is in charge of building a new mall. The plot of land available for the mall building is a rectangle with an area of 825,930 ft^2. The width of the plot of land is 798 ft. If the mall will cover the entire plot of land, how long will it be?

The mall will be ☐ ft long.

12. **Distance** An airplane is traveling at 403 miles per hour. How long will it take the airplane to travel 15,717 miles?

It will take the airplane ☐ hours.

13. Find the quotient.

$17.2 \div 4$

$17.2 \div 4 =$ ☐

14. Divide.

$4.8 \div 2.4$

$4.8 \div 2.4 =$ ☐ (Type a whole number or a decimal.)

15. A store had apples on sale for $1.20 a pound. Mike spent $6.48 on apples. How many pounds did he buy?

Mike bought ☐ pounds of apples.
(Type a whole number or a decimal.)

16. **Clothes** Ragnar goes to a store to buy T-shirts. The store has T-shirts on sale for $5.30 each. Ragnar has $77.38 left on a gift card. What is the maximum number of T-shirts he can buy using only the gift card?

The maximum number of T-shirts Ragnar can buy is ☐.
(Type a whole number.)

17. Write the word form and fraction form of 0.493.

What is the word form of 0.493?

- A. four hundred ninety-three hundredths
- B. four hundred ninety-three thousandths
- C. four hundred ninety-three thousand
- D. four hundred ninety-three tenths

What is the fraction form of 0.493?

- A. $\frac{493}{1{,}000}$
- B. $\frac{1}{493}$
- C. $\frac{493}{10}$
- D. $\frac{493}{100}$

18. Convert $\frac{1}{4}$ to a decimal.

$\frac{1}{4} = \square$

19. A study found that 0.273 of the people surveyed like grapefruit juice. What fraction of those surveyed like grapefruit juice?

Choose the correct answer below.

A. $\frac{273}{100}$

B. $\frac{273}{10}$

C. $\frac{1}{273}$

D. $\frac{273}{1{,}000}$

20. **Buying Chicken** A package of chicken weighs $\frac{1}{3}$ kg. Use a decimal to approximate $\frac{1}{3}$. Then use the decimal approximation to find the price of the package if chicken costs $5.90 per kilogram.

The package weighs about ☐ kg.
(Round to the nearest hundredth as needed.)

The price of the package of chicken is $☐.
(Round to the nearest cent as needed.)

21. You want to buy a new cell phone. You are deciding between two different models. Model X weighs 0.44 pound and model Y weighs $\frac{5}{12}$ pound. You think the one that weighs less will be better. Which model should you buy? Answer this question by changing the fraction to a decimal.

Choose the correct answer below.

A. You should buy model Y because $0.44 > \frac{5}{12}$.

B. You should buy model X because $0.44 < \frac{5}{12}$.

C. You could buy either model because $0.44 = \frac{5}{12}$.

22. **Construction** Donald wants to drill a hole with diameter no more than 0.4 inch. Can he use a $\frac{2}{5}$-inch drill bit? Answer this question by changing the decimal to a fraction.

[ ] since 0.4 [ ] $\frac{2}{5}$.

23. Order the numbers from least to greatest.

$\frac{3}{7}$ 0.47 0.48

Order the numbers from least to greatest.

[ ] [ ] [ ]

24. Jenny has a new puppy that weighs 3.34 pounds. Seth also has a new puppy, and his weighs 2.93 pounds. After one month, Jenny's puppy has gained 1.12 pounds, while Seth's has gained 1.48 pounds. Whose puppy currently weighs more?

Choose the correct answer below.

- A. The puppies currently have the same weight.
- B. Seth's puppy currently weighs more.
- C. Jenny's puppy currently weighs more.

25. If you increase your bicycle speed by 8.1 miles per hour, the speed will be 19.8 miles per hour. What is your bicycle speed now?

Your bicycle speed now is [ ] miles per hour.

26. A gardener measures the height of a plant to be $\frac{7}{10}$ inch. Which of the expressions or numbers listed below can you use to also represent the height of the plant?

$\frac{42}{60}$ 0.7 $7 \div 10$ $7\overline{)10}$

Select all that apply.

- ☐ A. $7\overline{)10}$
- ☐ B. $\frac{42}{60}$
- ☐ C. 0.7
- ☐ D. $7 \div 10$

27. You have three identical pieces of rope. The combined length of the three pieces is $\frac{1}{4}$ yd. What is the length of each piece?

The length of each piece is ☐ yd.

28. Two friends start an exercise program. The two friends spend a combined 44.1 hours at the gym each month. The first friend spends 21.7 hours at the gym. Estimate the number of hours the second friend spends at the gym by rounding each value to the nearest whole number. Then find the exact number of hours.

Estimate the number of hours the second friend spends at the gym.

☐ hours

Find the exact number of hours the second friend spends at the gym.

☐ hours

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1. 23.15

2. 7.59

3. A
88.46

4. 49.596

5. 0.064

6. 51.06

7. 5.29

8. 10.49

9. 53
4

10. 108
2

11. 1,035

12. 39

13. 4.3

14. 2

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15. 5.4

16. 14

17. B
A

18. 0.25

19. D

20. 0.33
1.95

21. A

22. Yes,
=

23. $\frac{3}{7}$
0.47
0.48

24. C

25. 11.7

26. B, C, D

27. $\frac{1}{12}$

28. 22
22.4