

Name _____ Date _____

Give the best answer for each question.

1. Which of the following is equivalent to the product $645,000 \times 10^3$?

- 6,450,000,000
 645,000,000
 64,500,000
 6,450,000

2. Order the decimals from least to greatest.

0.649 3.152 0.397

3. Divide.

$$7 \overline{) 5,922}$$

4. Which multiplication equations can be used to find the quotient $4 \div \frac{1}{5}$? Select **all** that apply.

- $4 \times \frac{1}{5}$ $5 \times \frac{1}{4}$
 $4 \times \frac{5}{1}$ 4×5

5. Luke runs 7.25 miles in 1 hour. At this rate, how far could he run in 1.5 hours?

- 18.725 mi
 10.875 mi
 8.75 mi
 5.75 mi

6. Add.

$$\begin{array}{r} 5.37 \\ + 2.45 \\ \hline \end{array}$$

7. Divide.

$$4 \overline{) \$409.92}$$

8. Look at the data below.

$\frac{1}{2}$, 1, 1, 0, $\frac{1}{2}$, $\frac{1}{4}$, $1\frac{3}{4}$, $\frac{1}{2}$, 0, $\frac{1}{2}$, $\frac{1}{4}$

To make a line plot for the data, what interval should you use?

- $\frac{1}{8}$ $\frac{1}{2}$
 $\frac{1}{4}$ 1

9. Multiply.

$$\frac{4}{5} \times \frac{2}{3} = \frac{\boxed{}}{\boxed{}}$$

10. Divide.

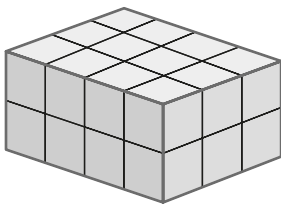
$$0.72 \div 4 = \underline{\hspace{2cm}}$$

11. Subtract.

$$\begin{array}{r} \$12.14 \\ - \quad 8.50 \\ \hline \end{array}$$

- \$3.64
- \$4.44
- \$4.64
- \$20.64

12. Each cube that makes up the rectangular prism has a volume of 1 cubic centimeter.



What is the volume of the rectangular prism?

13. Complete the place value chart for the given number.

eight hundred twenty-nine thousandths

ones	tenths	hundredths	thousandths

14. Evaluate $0.91 - n$ when $n = 0.27$.

15. Match each equation with the missing power of 10.

$$720 \times ? = 7,200,000 \qquad 10^1$$

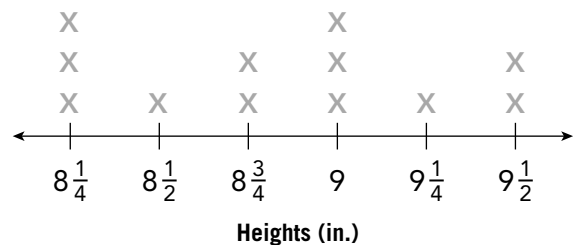
$$1,700 \times ? = 17,000 \qquad 10^2$$

$$90,300 \div ? = 903 \qquad 10^3$$

$$81,000 \div ? = 81 \qquad 10^4$$

16. Look at the line plot. Complete the sentences.

Heights of Plants



There are _____ plants in all.

There are _____ plants that are at least 9 inches tall.

- 17.** Emma puts 51 photos into an album. Each page of her album holds 6 photos.

Which model best represents $\frac{51}{6}$ as a quotient and remainder for this situation?

Total number of photos: 51								
6	6	6	6	6	6	6	6	5

Total number of photos: 51							
6	6	6	6	6	6	6	9

Total number of photos: 51								
6	6	6	6	6	6	6	6	3

Total number of photos: 51						
8	8	8	8	8	8	3

- 18.** There are 25 rows in Scott’s section at the baseball stadium with 18 seats in each row. How many seats are there in all?

- 19.** Mario uses $\frac{1}{4}$ pound of walnuts to make muffins. He uses the same amount of walnuts in each of 6 muffins. What is the amount of walnuts in each muffin?

20. Maryann has $\frac{9}{16}$ gallon of water in her watering can. She uses $\frac{2}{3}$ of it to water her plants. How much water is left in the watering can?

21. Complete to show how to find 34×2.54 using partial products.

$$\text{_____} \times 2.54 + \text{_____} \times 2.54$$

$$= \text{_____} + \text{_____}$$

$$= \text{_____}$$

22. A triangle has 3 sides that are equal in length.

Part A

The triangle is a(n) _____ triangle.

Part B

If each side has a length of 1 foot 5 inches, what is the total length of the three sides? Simplify to as many whole feet as possible.

_____ ft _____ in.

- 23.** A quadrilateral has two sides that are each 90 millimeters in length and two sides that are each 14 centimeters in length. The opposite sides of the quadrilateral are equal in length, and each angle has a measure of 90° .

Part A

What type quadrilateral is described? Select **all** that apply.

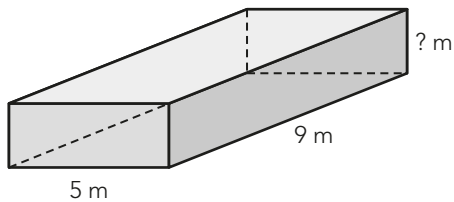
- square trapezoid
 rhombus parallelogram
 rectangle

Part B

What is the total length of the four sides?

_____ cm

- 24.** Look at the figure. The figure has a volume of 135 m^3 .



Part A

What multiplication equation could be used to find the height of the figure? Use the formula $V = \ell \times w \times h$.

Part B

What is the height of the figure?

The height is _____ meters.

25. Part A

Write the partial products for the multiplication problem.

$$\begin{array}{r} 417 \\ \times 32 \\ \hline \end{array}$$

Part B

Find the product.

$$417 \times 32 = \underline{\hspace{2cm}}$$

26. Part A

Add. Write the answer in simplest form.

$$\begin{array}{r} \frac{2}{3} \\ + \frac{2}{5} \\ \hline \end{array}$$

Part B

Subtract. Write the answer in simplest form.

$$\begin{array}{r} \frac{2}{3} \\ - \frac{2}{5} \\ \hline \end{array}$$

27. Lorna needs 5 feet of ribbon to make one bow. She has 28 feet of ribbon for making bows.

Part A

Complete the division equation that could be used to find the number of bows that Lorna can make.

$$28 \div 5 = \frac{\square}{\square} = \square \frac{\square}{\square}$$

Part B

How many bows can Lorna make with the ribbon she has?
How many feet of ribbon will she have left over?

Lorna can make _____ bows with _____ feet left over.

28. Nolan has $\frac{5}{8}$ yard of black wire and $\frac{1}{6}$ yard of white wire.

Part A

What is the total length of wire Nolan has? Give your answer in simplest form.

Part B

How much more black wire than white wire does Nolan have?
Give your answer in simplest form.

29. Part A

Find the next three numbers in the pattern.

3.6, 4.62, 5.64, 6.66, _____, _____, _____

Part B

Justify your answer to Part A.

- 30.** A group of 48 students visits the cafeteria. Only 5 children fit at each table at the cafeteria.

Part A

How many tables will they need?

Part B

Justify your answer to Part A.