

1. Ganesh is making a scale model of the Space Needle in Seattle, Washington. The space needle is 605 feet tall. If the model is $\frac{1}{100}$ the actual size of the Space Needle, how tall is the model?

_____ feet

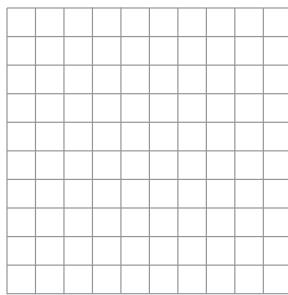
2. For numbers 2a–2d, choose Yes or No to indicate whether the product is correct.

- 2a. $0.48 \times 10 = 4.8$ Yes No
- 2b. $0.76 \times 10 = 76$ Yes No
- 2c. $0.01 \times 100 = 0.1$ Yes No
- 2d. $0.50 \times 1,000 = 500$ Yes No

3. Madison is in charge of buying the hamburger meat for her company's annual picnic. She needs to buy enough meat to make 1,000 hamburgers. Each hamburger will weigh 0.25 pound. How many pounds of hamburger meat does Madison need to buy? Explain how to find the answer.

4. Kara is shading this model to show 0.09×4 . Shade the correct amount of boxes that will show the product.

Kara should shade groups of small squares
or small squares.

 GO ON

5. Rhianna is making a shelf to store her collection of rocks and shells. She is using 5 pieces of wood that are each 3.25 feet long. How much wood will Rhianna use to make the shelf?

_____ feet

6. Which problems will have two decimal places in the product? Mark all that apply.

- (A) 3×0.65 (C) 8.1×10 (E) 7.22×10^0
(B) 4.8×2 (D) 6.1×7.3

7. Mari and Rob are making a poster for the science fair. They need to figure out how much a rock that weighs 7 pounds on Earth would weigh on Mars. They know that they can multiply the amount the rock weighs on Earth by 0.38 to find its weight on Mars. Circle the partial products Mari and Rob would need to add to find the product of 7 and 0.38. Mark all that apply.

- (A) 0.7 (B) 0.56 (C) 2.66 (D) 2.1 (E) 0.38

8. Michael exchanged 1,000 U.S. dollars for the Croatian currency, which is called the Kuna. The exchange rate was 5.81 Kuna to \$1.

Part A

How many Croatian Kuna did Michael get? Explain how you know.

Part B

Michael spent 4,976 Kuna on his trip. He exchanged the Kuna he had left for U.S. dollars. The exchange rate was 1 Kuna to \$0.17. How many U.S. dollars did Michael get? Support your answer using specific information from the problem.

GO ON 

9. Paul works at a local grocery store. He worked 15 hours this week. Last week, he worked 2.5 times as many hours as he worked this week. How many hours did Paul work last week? Show your work.

10. Jeremiah always rides his bike to and from work. The total length of a trip to and from work is 14.6 kilometers. Last month, Jeremiah worked 18 days. How many kilometers did he ride his bike to and from work last month? Show your work.

11. Write each number in a box to complete the number sentences. A number may be used more than once.

9.45

94.5

945

$27 \times 35 = \boxed{}$

$0.27 \times 35 = \boxed{}$

$27 \times 3.5 = \boxed{}$

$2.7 \times 35 = \boxed{}$

12. Mandy, Jeremy, and Lily went to an amusement park during their summer vacation. Mandy spent \$16.25 at the amusement park. Jeremy spent \$3.40 more than Mandy spent. Lily spent 2 times as much money as Jeremy spent. How much did Lily spend at the amusement park?

\$ _____

GO ON 

- 13.** The cost of admission to the Flemington Aquarium is \$11.50 for each senior citizen, \$14.75 for each adult, and \$7.25 for each child.

Part A

A family of 2 adults and 1 child plans to spend the day at the Flemington Aquarium. How much does admission for the family cost? Explain how you found your answer.

Part B

Describe another way you could solve the problem.

Part C

What if 2 more tickets for admission are purchased? If the two additional tickets cost \$14.50, determine what type of tickets the family purchases. Explain how you can determine the answer without calculating.

- 14.** At a dry cleaning store, it costs \$1.79 to clean a man's dress shirt and 6 times as much to clean a suit. Choose the answer that correctly completes the statement.

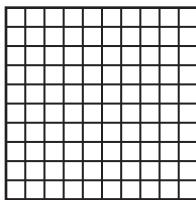
\$8.95

It would cost \$10.74 to dry clean one shirt and one suit.

\$12.53

GO ON 

15. Shade the model to show 0.6×0.2 . Then find the product.



$$0.6 \times 0.2 = \boxed{}$$

16. Mr. O'Brien is paid \$7.30 per hour for the first 40 hours he works in a week. He is paid 1.5 times that rate for each hour after that.

Last week, Mr. O'Brien worked 44 hours. He says he earned \$321.20 last week. Do you agree? Support your answer.

17. Explain how an estimate helps you to place the decimal point when multiplying 3.7×5.1 .

18. During a track meet, Calvin drinks 0.6 liter of water. Melinda drinks 0.8 times as much water as Calvin during the track meet. How much water does Melinda drink during the track meet?

_____ liter(s)

GO ON 

19. For numbers 19a–19d, select True or False for each statement.

- | | | |
|--|----------------------------|-----------------------------|
| 19a. The product of 1.3 and 2.1 is 2.73. | <input type="radio"/> True | <input type="radio"/> False |
| 19b. The product of 4.8 and 0.4 is 19.2. | <input type="radio"/> True | <input type="radio"/> False |
| 19c. The product of 0.08 and 0.7 is 5.6. | <input type="radio"/> True | <input type="radio"/> False |
| 19d. The product of 0.21 and 1.8 is 0.378. | <input type="radio"/> True | <input type="radio"/> False |

20. A builder buys 16.1 acres of land to develop a new set of walking trails and baseball fields.

Part A

The builder plans to use 0.25 of the land for baseball fields. How many acres will the builder use for the baseball fields?

_____ acres

Part B

The builder buys a second property that has 0.41 times as many acres as the first property. How many acres of land are in the second property? Show your work.

21. The library is 0.9 mile from the school. The museum is 0.6 times as far from the school as the library. How far is the museum from the school? Write an equation to solve.

22. Bruce is getting materials for a chemistry experiment. His teacher gives him a container that has 0.25 liter of a liquid in it. Bruce needs to use 0.4 of this liquid for the experiment. How much liquid will Bruce use?

_____ liter

