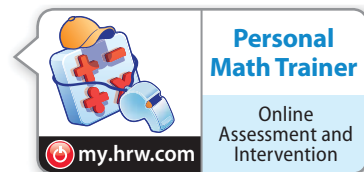


Review Test



Selected Response

1. Suppose you have developed a scale that indicates the brightness of sunlight. Each category in the table is 5 times brighter than the category above it. For example, a day that is dazzling is 5 times brighter than a day that is radiant. How many times brighter is a dazzling day than a dim day?

Sunlight Intensity	
Category	Brightness
Dim	2
Illuminated	3
Radiant	4
Dazzling	5

- (A) 125 times brighter
 (B) 625 times brighter
 (C) 3 times brighter
 (D) 25 times brighter
2. Patricia paid \$584 for 8 nights at a hotel. Find the unit rate.
- (A) $\frac{\$146}{1 \text{ night}}$ (C) $\frac{\$37}{1 \text{ night}}$
 (B) $\frac{\$584}{1 \text{ night}}$ (D) $\frac{\$73}{1 \text{ night}}$
3. Valerie sold 6 tickets to the school play and Mark sold 16 tickets. What is the ratio of the number of tickets Valerie sold to the number of tickets Mark sold?
- (A) 16 to 6 (C) 2 to 8
 (B) 2 to 3 (D) 3 to 8

4. Grant and Pedro are comparing their stocks for the week. On Monday, their results were opposites. Explain how you would graph their results for Monday if Grant lost \$4.
- (A) Grant's point is 4 units to the right of 0 on a number line, and Pedro's point is 4 units to the left of 0.
 (B) Grant's point is 4 units to the right of 0 on a number line, and Pedro's point is the same point.
 (C) Grant's loss is a point 4 units to the left of 0 on a number line, and Pedro's point is 4 units to the right of 0.
 (D) Grant's loss is a point 4 units to the left of 0 on a number line, and Pedro's point is the same point because it's already negative.
5. The fuel for a chain saw is a mix of oil and gasoline. The label says to mix 5 ounces of oil with 15 gallons of gasoline. How much oil would you use if you had 45 gallons of gasoline?
- (A) 21 ounces (C) 15 ounces
 (B) 1.67 ounces (D) 135 ounces
6. A stack of blocks is 12.3 inches tall. If there are 10 blocks stacked one on top of the other, how tall is each block?
- (A) 1.33 inches (C) 2.3 inches
 (B) 1.13 inches (D) 1.23 inches
7. Which temperature is warmest?
- (A) 16 °F (C) -21 °F
 (B) -16 °F (D) 21 °F

8. Each student needs a pencil and an eraser to take a test. If pencils come 8 in a box and erasers come 12 in a bag, what is the least number of boxes and bags needed for 24 students to each have a pencil and an eraser?

- (A) 3 boxes of pencils, 2 bags of erasers
- (B) 1 box of pencils, 1 bag of erasers
- (C) 8 boxes of pencils, 12 bags of erasers
- (D) 2 boxes of pencils, 3 bags of erasers

9. Find the quotient $7\frac{1}{6} \div \frac{5}{9}$.

- (A) 12
- (B) $13\frac{1}{2}$
- (C) $12\frac{9}{10}$
- (D) $1\frac{13}{30}$

10. Find the product 4.7×4.75 .

- (A) 223.25
- (B) 9.45
- (C) 22.325
- (D) 2.2325

11. Carla is building a table out of boards that are 4.25 inches wide. She wants the table to be at least 36 inches wide. What is the least number of boards she can use?

- (A) 8
- (B) 9
- (C) 9.5
- (D) 153

12. How many centimeters are there in 740.2 millimeters?

- (A) 7402 cm
- (B) 74.02 cm
- (C) 7.402 cm
- (D) 0.7402 cm

Mini-Tasks

13. Jada is making lasagna and pizzas for a large party. Her lasagna recipe calls for $1\frac{1}{4}$ cups of tomato paste, and her pizza recipe uses $\frac{1}{2}$ cup of tomato paste per pizza. She will double her lasagna recipe and make 5 pizzas. Write and evaluate an expression for how many $\frac{3}{4}$ -cup cans of tomato paste she will need in all.

14. Explain how you can use multiplication to find the quotient $\frac{3}{5} \div \frac{3}{15}$. Then evaluate the expression.

15. You are working as an assistant to a chef. The chef has 8 cups of berries and will use $\frac{2}{3}$ cup of berries for each dessert he makes. How many desserts can he make?

Performance Task

16. School A has 216 students and 12 classrooms. School B has 104 students and 4 classrooms.

Part A: What is the ratio of students to classrooms at School A?

Part B: What is the ratio of students to classrooms at School B?

Part C: How many students would have to transfer from School B to School A for the ratios of students to classrooms at both schools to be the same? Explain your reasoning.
