

SUNSHINE MATH - 7

Neptune, XVII

Name: _____

(This shows my own thinking.)

- ★★★★ 1. At a drive-in movie there is a fixed charge for the driver and one passenger and an extra charge for each additional passenger. If 6 people are in the car, the total charge is \$8.00. If 3 people are in the car, the total charge is \$4.25. What is the fixed charge for the driver and one passenger?

Answer: \$ _____

- ★★★ 2. The owner of a computer company works 7 days a week during the summer when business is booming. He wears a clean shirt to work every day. If he drops off his shirts and picks up the previous week's shirts every Monday after work, how many shirts must he own so that he doesn't run out of clean clothing?

Answer: _____

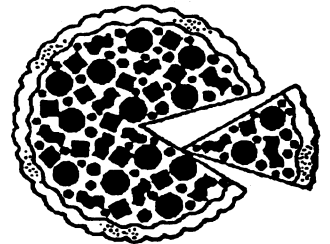


- ★ 3. Juanita and her family leave home for a vacation at 6:00 A.M. During the day, they stop 3 times to eat for an hour each time, and 4 times for gas and a restroom break for 30 minutes each time. They drive a total of 600 miles and arrive at 9:00 P.M. What is their average rate of speed while the car is moving?

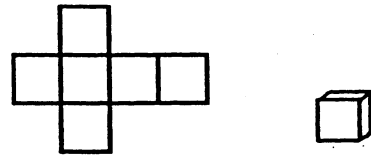
Answer: _____ miles per hour

- ★★ 4. A pizza restaurant offers three choices of cheese, two choices for crust, and four choices for toppings. How many different pizzas can be made using exactly one choice of cheese, crust and topping?

Answer: _____ different pizzas

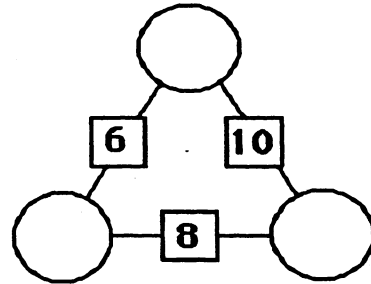


- ★★★★ 5. The figure to the left consists of 6 squares the same size. The area of the figure is 294 square units. When folded, it makes a box as shown to the right. What is the volume of the box?



Answer: _____ cubic units

- ★★★ 6. Find numbers for the vertices so that the numbers on the sides are the sum of vertices they join. Write each answer in the appropriate circle.



- ★★ 7. A five digit zip code has two identical missing digits x so that it reads: $69x4x$

How many zip codes are possible if the zip code is divisible by 7?

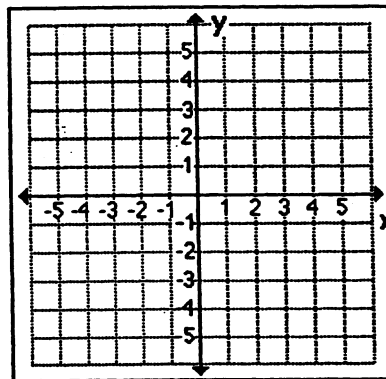
Answer: _____ zip codes

- ★★★ 8. The average of 4 positive whole numbers is 8. If all four numbers are less than 10, what are the five possible sets of numbers?

Answer: _____, _____, _____, _____, _____

- ★★★★ 9. Connect these points with a heavy line:

- (a) connect $(-5, -1)$ to $(-5, -6)$
- (b) connect $(-5, -3)$ to $(-3, -3)$
- (c) connect $(-3, -6)$ to $(-3, -1)$
- (d) connect $(1, -2)$ to $(1, -6)$
- (e) connect $(0, -1)$ to $(-1, -6)$ to $(-2, -1)$
- (f) connect $(-1.5, -3)$ to $(-0.5, -3)$
- (g) draw a big dot at $(1, -1)$



Draw the reflection of these lines about the x axis. You should now have a familiar word.