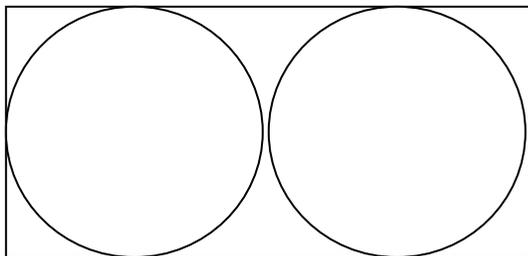


## 8<sup>th</sup> Grade Junior Varsity Practice Problems

1.  $1992 - 1000 = 1000 - ?$
2. If June 1, 2009 is a Friday, then what day of the week is July 1, 2009?
3. If *twice* the perimeter of a square is 28, then what is the length of a side of the square?
4. The points A, B, C, D, and E are located on a straight line in order.
  - The distance from A to E is 20cm.
  - The distance from A to D is 15cm.
  - The distance from B to E is 10cm.
  - C is halfway between B and D.

What is the distance from B to C?

5. If it takes 6 specks to make a spot, how many specks does it take to make  $5 \frac{2}{3}$  spots?
6. The Adams family was going to buy a car for \$5800. The car dealer offered the Adams family two options for buying the car. They could pay the full amount in cash, or they could pay \$1000.00 down and \$230.00 a month for 24 months on the installment plan. How much more would they pay for the car on the installment plan?
7. George, Sam, Andrew and Brandon each had four dates to four different Parish Center Dances with four different girls, named Cher, Connie, Melissa and Kendra. On the second date, George dated Connie and Brandon dated Kendra. On the third date Andrew went out with Melissa and Sam went out with Connie. Melissa went out with George and Cher went out with Sam on the fourth date. What couples went out together on the first date if no pairs went out more than once?
8. The sum of the areas of the two congruent circles shown is  $72\pi$  centimeters. What is the area of the rectangle?



9. A rocket ship flies at 36,000 km/hr. If I fly 120 km in this rocket ship, for how many seconds do I fly?

10. When I turn my calculator upside down, the digits 0, 1, 2, 5, 6, 8, 9 still appear as digits. For example, when I turn my calculator upside down, 65259 remain the same—that is, it stays 65259. How many whole numbers between 100 and 1000 remain the same when I turn my calculator upside down?

## **8<sup>th</sup> Grade Junior Varsity Practice Problems Answer Key**

1. 8
2. Sunday
3.  $3\frac{1}{2}$  or 3.5
4. 2.5 cm
5. 34 specks
6. \$720
7. Cher dated George  
Brandon dated Melissa  
Connie dated Andrew  
Sam dated Kendra
8.  $288\text{ cm}^2$
9. 12
10. 30