MATH SUPERSTARS – 4

Name: _____

Jupiter, VI

(This shows my own thinking.)

★★ 1. Jean went on a vacation with her parents in their family car. They left their home in Florida on Monday at 7:15 a.m. and arrived in North Carolina on Tuesday at 11:45 a.m. How long was their trip?

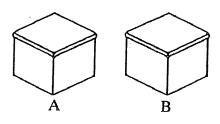
Answer: _____ hours and _____ minutes

*** 2. Mr. Brown wanted to put up a fence around his property. How many feet of fencing did he need? The lawn is outlined to the right, but the picture is not drawn to scale.
Answer: ______ feet
175 ft.

150 ft.

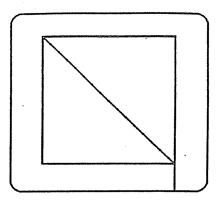
200 ft.

- $\star\star\star$ 3. Find the next number in the patterns below.
 - (a.) $\$32.10 \rightarrow \$32.30 \rightarrow \$32.50 \rightarrow \$32.70 \rightarrow \$32.90 \rightarrow \$$ (b.) $720 \rightarrow 360 \rightarrow 180 \rightarrow 90 \rightarrow$ ____ (c.) $\frac{1}{2} \rightarrow \frac{1}{4} \rightarrow \frac{1}{8} \rightarrow \frac{1}{16} \rightarrow$ ____
- ★★ 4. Box A has 3 red marbles and 2 yellow marbles. Box B has 2 red marbles and 1 yellow marble. If you have to pick a red marble to win a prize and you can not look in the box, which box would give you the best chance of winning the prize?



Answer: _____

 ★★ 5. You can trace over this figure with a pencil without retracing any path, if you start in the right place. Find the two places where you can do this, and draw circles around them.



★ 6. If 5 is added to a number n and the answer is multiplied by 2, the result will be 24. What is the number n?

Answer: n =_____

2.1

 $\ddagger \ddagger 4$ 7. Estimate the answers below. Circle the best choice.

a. $3\frac{10}{11} + 2\frac{1}{101}$ b. $5\frac{2}{47} - 2\frac{1}{35}$ c. $6\frac{17}{19} \times 7\frac{3}{290}$

Choose:4 or 5 or 6 or 7Choose:2 or 3 or 4 or 5Choose:42 or 49 or 63 or 213

** 8. You need $\frac{1}{2}$ cup of sugar to make a threelayer cake. How much sugar would you need for a one-layer cake?

Answer: ____

 $\star\star$ 9. What is the product of the ten one-digit numbers?

Answer: _____