

MATH SUPERSTARS – 6

Uranus, XXV

Name: _____
(This shows my own thinking.)

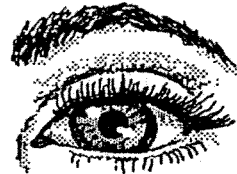
- ★★ 1. A person your age is usually awake about fourteen hours each day. Your eye blinks about 25 times a minute when you're awake.

a. About how many times each day do your eyes blink?

Answer: _____ times

b. About how many times per year do your eyes blink?

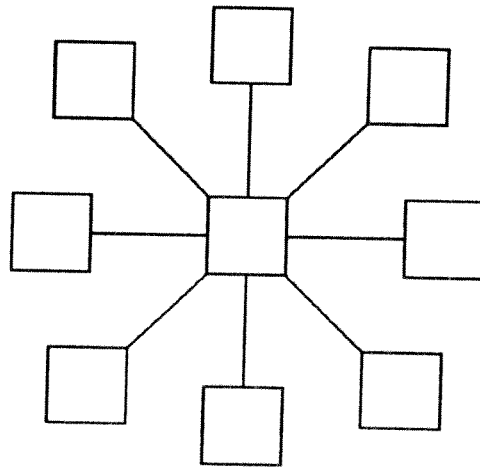
Answer: _____ times



- ★★ 2. Sue and Sally were building their own bowling alley. There would be 15 lanes, each needing ten pins. However, due to damage, they needed to keep on hand 20% more pins than were in use at any given time. How many pins did they need to purchase?

Answer: _____ pins

- ★★★ 3. Put the numbers 10 through 18 in the diagram below in such a way that the sum of the three numbers along any line totals 42.



- ★★★ 4. A *perfect number* is one that is the sum of its proper divisors. Six is a *perfect number* because $6 = 1 + 2 + 3$. In the set of whole numbers, six is the first *perfect number*. What is the second *perfect number*? (Hint: It is less than 30.)

Answer: _____

- ★★ 5. Rebecca bought 3 new cassette tapes on sale. She went into the music store with \$27 and came out with \$6. What was the average cost for the tapes?

Answer: _____

- ★★★★ 6. Sam keeps track of several stocks on the stock market. He watched one stock for five consecutive days and recorded the activity. On Monday morning, his favorite stock opened at $12\frac{1}{2}$ and gained $\frac{3}{4}$ points that day. On Tuesday there was a gain of $1\frac{3}{4}$ points. Wednesday the stock lost $5\frac{1}{2}$ points. On Thursday there was a change of $+2\frac{5}{8}$ points. On Friday afternoon the stock closed at $14\frac{1}{4}$. What was the change for Friday over Thursday's standing?

Answer: _____

- ★★ 7. How many times does a symbol or word name for the number *one* appear on the dollar bill below?

Answer: _____ times



- ★★ 8. Consider the watch face to the right. Turn it 180° , then flip it over to the left. Circle the figure below that shows what it would look like.

