

Enrichment Packet #30

Due: Monday

NAME: _____



Name _____

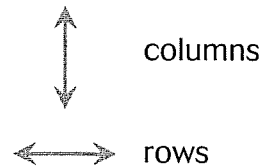
Number Search

E 1-1

**VISUAL
THINKING**

Use the number chart below to answer each question. Use only adjacent digits, that is, digits next to each other, in a row or column to make a number. Rows are read left to right. Columns are read top to bottom.

	K	L	M	N	O	P	Q	R	S	T
A	3	2	1	1	4	2	2	8	4	5
B	5	4	1	3	2	2	1	1	1	4
C	4	2	6	7	0	6	8	8	6	4
D	3	9	4	2	3	5	5	3	2	3
E	2	7	1	0	6	2	3	8	3	2
F	7	1	3	5	7	9	8	5	8	5
G	1	9	5	9	1	5	6	7	4	9
H	1	2	2	1	7	6	6	3	7	8
I	7	3	1	2	6	9	2	3	5	2
J	1	9	2	5	9	9	2	3	8	5



- Which column has the four-digit number of the least value? _____
- Which row has the longest string of numbers in counting order? _____
- Which row has the three-digit number of the greatest value? _____
- In what column can the palindrome with the greatest number of digits be found?
(A palindrome is a number that reads the same forward and backward) _____
- Which row has the longest string of odd numbers in counting order? _____
- In what row can the palindrome with the greatest number of digits be found? _____
- Which column has the longest string of numbers in consecutive order? _____
- Which row has the five-digit number of the least value? _____



Name _____

Planet Facts

E 1-2

DATA

This table gives the statistics of some planets. Use the table and strategies you know to answer the questions.

	Mercury	Venus	Earth
Average distance from the Sun (millions of miles)	about 36	about 67	about 93
Revolution around the Sun (days)	88.0 days	224.7 days	365.26 days
Mass (Earth = 1)	0.055	0.814	1
Diameter at Equator	3,031 mi	7,521 mi	7,926 mi

- About how far is Earth from the Sun?
 a. 93 miles b. 939,000 miles c. 93,000,000 miles
- Which planet has the smallest mass compared to Earth? _____
- Which of the following best describes the relationship of Earth's and Mercury's diameters?
 a. Earth's diameter is more than twice the size of Mercury's.
 b. Earth's diameter is about half the size of Mercury's.
 c. Earth's diameter is almost the same size as Mercury's.
- The planet Mars takes 687 days to make a single orbit (revolution) around the Sun. Which number sentence would you use to find out how much longer this orbit takes than the orbit of Mercury?
 a. $687 + 88$ b. 687×88 c. $687 - 88$
- Which planet is closest to Venus? _____
- Which numbers given in the table are estimates? Explain how you know.

- One calendar year on Earth is 365 days, except for leap years, when the year has 366 days. Are 365 and 366 estimates of the actual time it takes Earth to revolve around the sun? Explain.



Name _____

Finding Patterns

E 2-4

PATTERNS

The sums in Set A are all related in some way. The sums in Set B are also related in some way. Find each sum and try to find the relationship in each set.

Set A

$$\begin{array}{r} 336 \\ + 451 \\ \hline \end{array}$$

$$\begin{array}{r} 69 \\ + 476 \\ \hline \end{array}$$

$$\begin{array}{r} 23,756 \\ + 8,567 \\ \hline \end{array}$$

$$\begin{array}{r} 7,611 \\ + 6,530 \\ \hline \end{array}$$

$$\begin{array}{r} 42,385 \\ + 52,564 \\ \hline \end{array}$$

$$\begin{array}{r} 91 \\ + 90 \\ \hline \end{array}$$

$$\begin{array}{r} 4,999,999 \\ + 656,566 \\ \hline \end{array}$$

$$\begin{array}{r} 22,401 \\ + 15,982 \\ \hline \end{array}$$

Set B

$$\begin{array}{r} 283 \\ + 131 \\ \hline \end{array}$$

$$\begin{array}{r} 574 \\ + 264 \\ \hline \end{array}$$

$$\begin{array}{r} 29,328 \\ + 34,308 \\ \hline \end{array}$$

$$\begin{array}{r} 8,653 \\ + 20,639 \\ \hline \end{array}$$

$$\begin{array}{r} 39,743 \\ + 44,095 \\ \hline \end{array}$$

$$\begin{array}{r} 196 \\ + 76 \\ \hline \end{array}$$

$$\begin{array}{r} 1,246,749 \\ + 3,298,705 \\ \hline \end{array}$$

$$\begin{array}{r} 56,582 \\ + 5,034 \\ \hline \end{array}$$

Circle the sums in Set C that belong in Set A. Write B next to those that belong in Set B.

Set C

$$\begin{array}{r} 691 \\ + 278 \\ \hline 969 \end{array}$$

$$\begin{array}{r} 86 \\ + 348 \\ \hline 434 \end{array}$$

$$\begin{array}{r} 25,000 \\ + 47,727 \\ \hline 72,727 \end{array}$$

$$\begin{array}{r} 15,789 \\ + 11,483 \\ \hline 27,272 \end{array}$$

$$\begin{array}{r} 8,927 \\ + 7,234 \\ \hline 16,161 \end{array}$$

$$\begin{array}{r} 499 \\ + 26 \\ \hline 525 \end{array}$$

$$\begin{array}{r} 3,089,102 \\ + 749,281 \\ \hline 3,838,383 \end{array}$$

$$\begin{array}{r} 27,532 \\ + 27,013 \\ \hline 54,545 \end{array}$$



Name _____

Missing Number Hunt

E 2-10

**NUMBER
SENSE**

Fill in the boxes to complete the sums.

$$\begin{array}{r} 1. \quad 14.3 \square \\ + \quad 7.\square 0 \\ \hline \square 1.86 \end{array}$$

$$\begin{array}{r} 2. \quad 5.16 \\ - \square.9\square \\ \hline 4.\square 7 \end{array}$$

$$\begin{array}{r} 3. \quad \square.89 \\ - 1.9\square \\ \hline 0.\square 2 \end{array}$$

$$\begin{array}{r} 4. \quad 2.9 \\ + \square.9 \\ \hline \square 1.8 \end{array}$$

$$\begin{array}{r} 5. \quad \square.83 \\ - 0.\square\square \\ \hline 5.02 \end{array}$$

$$\begin{array}{r} 6. \quad 18.6\square \\ + 212.\square \\ \hline 2\square 1.44 \end{array}$$

$$\begin{array}{r} 7. \quad 4.6\square \\ + 3.\square 2 \\ \hline \square.09 \end{array}$$

$$\begin{array}{r} 8. \quad 3.\square 5 \\ - 2.6\square \\ \hline \square.77 \end{array}$$

$$\begin{array}{r} 9. \quad \square.8\square \\ + 2.\square 4 \\ \hline 7.80 \end{array}$$

$$\begin{array}{r} 10. \quad 16.2\square \\ + \square 9.\square 7 \\ \hline 5\square.08 \end{array}$$

$$\begin{array}{r} 11. \quad 21.4\square \\ + \square.\square 3 \\ \hline \square 8.30 \end{array}$$

$$\begin{array}{r} 12. \quad 83.6\square \\ + \square\square.\square 1 \\ \hline 87.42 \end{array}$$

Complete the puzzles.

Every line of numbers in both puzzles should have a sum of 57.95.

