Name: $\qquad$
Complete each pattern, using the same rule. Write what the rule is.

$$
\begin{gathered}
\mathrm{H}, \mathrm{~F}, \mathrm{I}, \ldots, \ldots \mathrm{H}, \mathrm{~K}, \mathrm{I}, \mathrm{~L}, \mathrm{~J} \\
\mathrm{G}, \mathrm{~L}, \mathrm{H}, \mathrm{M}, \mathrm{I}, \mathrm{~N}, \ldots,-, \mathrm{K}, \mathrm{P}, \mathrm{~L}, \mathrm{Q}
\end{gathered}
$$

Complete each pattern. Write what the rule is.

| 81 | 72 | 63 |
| :--- | :--- | :--- |
| 54 |  | 36 |
| 27 | 18 |  |

Name: $\qquad$
Draw a line to match each problem with the same answer.

| triple 8 | - triple 6 |
| :---: | :---: |
| quadruple 6 | - quadruple 4 |
| double 6 | - double 3 |
| double 9 | - quadruple 3 |
| triple 2 | - double 8 |

2 more than 752
What number multiplied by
four is twenty?
double 200


How many hours are there from 7 a.m. to 4 p.m.?


Find the verb in the sentence and write it on the line.
Scientists classify tomatoes as fruits.


Name: $\qquad$

This puzzle has a large number in the middle, which is the sum of the four numbers that surround it.
Example:
Example:

$$
5+16+10-8=23 \quad 14+10+19-6=37
$$



Fill in the missing numbers. How? The sum of the four surrounding numbers is in the center of each square.
Exactly one of the four numbers has to be one of these numbers: $-6,-4$, or -8 . The other three numbers have to all be DIFFERENT and must be from these: 10, 16, 5, 19, 8, or 14.


Name: $\qquad$
Fill in the missing numbers. How? The sum of the four surrounding numbers is in the center of each square. Exactly one of the four numbers has to be one of these numbers: -7, -8, or -9 . The other three numbers have to all be DIFFERENT and must be from these: 16, 12, 13, 14, 3, or 18.


Name: $\qquad$
Make change. You can use $\$ 20, \$ 10, \$ 5, \$ 1,25 \llbracket, 10 \llbracket, 5 \llbracket$, or $1 \uparrow$.
Jacob has $\$ 22.15$. He has 4 bills and 18 coins. How?

$\square$ $\square$  10 $\square$




April has $\$ 40.20$. She has 4 bills and 19 coins. How?


Alex has $\$ 88.13$. He has 10 bills and 15 coins. How?
$8+8=\square \quad 9+7=\square \quad 10-1=\square+5=\square$

Name:
Cross off the number that does NOT belong.
$18,36,54,65,72,90,108,126,144$
$\qquad$ not belong in the pattern?

Cross off the number that does NOT belong.
$40,40,48,55,66,56,70,64,85,72,100,80,115,88$

Why does $\qquad$ not belong in the pattern?

Name: $\qquad$ Cool, huh?


imagine 8 in your
head
add 1
subtract 3
subtract 4
Write the number.
$\frac{D}{D}$

What is the sum?

$$
A+B+C+D
$$

## Wow! Great job! That's the answer, but do you know how to SPELL the number?

$\qquad$
$\qquad$
1 before 17 2 before 15 $\qquad$ 3 after 18 $\qquad$

2 after 15 $\qquad$

5 after 11 $\qquad$

1 after 16 $\qquad$
7 before 16 $\qquad$

8 before 13 $\qquad$
7 after 19 $\qquad$

6 before 12 $\qquad$

9 before 14 $\qquad$

4 before 19
$\qquad$

3 before 11 $\qquad$

5 before 18 $\qquad$

2 before 17

Name: $\qquad$
Each box needs a number from 1 to 9 . You may re-use numbers.
One set of sums has been done for you.

$7+3-2-5$
$8-6+3$
Write this number: 3 tens, 7 thousands, 5 ones, 6 hundreds
If you know
$75+28=103$
Then what is $75+25 ?$
double 80
10, 12, 14, $\qquad$ , 18, 20,

22, 24


Write this number:
7 hundreds, 8 tens, 3 thousands
$\qquad$

ACROSS
3. $4+12$
5. the tens in 10-Down + the ones in 3-Across + the ten thousands in 8-Down + the thousands in 2-Down
11. the thousands in 2-Down + the tens in 9-Down + the ones in 5-Across

## DOWN

1. the tens in 10-Down + the hundred thousands in 4-Down + the ones in 2-Down + the thousands in 11-Across
2. three hundred eighty-eight thousand, one hundred fifteen
3. the thousands in 9-Down + the ones in 3-Across + the hundred thousands in 2-Down
4. four million, thirty-two thousand, three hundred thirty-six
5. three million, thirty-five thousand, five hundred seventeen
6. the tens in 10-Down + the ones in 3-Across + the ten thousands in 2-Down
7. the ten thousands in 8-Down + the thousands in 5 -Across + the ones in 3-Across + the tens in 10-Down
8. $3+19$


Name: $\qquad$

| Purze: |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| 9 | 2 | 2 | ¢ | 21 |
| E0\% | (80) | 2 | 2 | 16 |
| 97 | 2 | \%ois | (00) | 22 |
| E0\% | \%os | 成 | 2 | 29 |
| 34 | 16 | 22 | 16 | + |


|  | $\mathbf{2}$ | $\mathbf{2}$ |  | 21 |
| :--- | :--- | :--- | :--- | :--- |
|  |  | $\mathbf{2}$ | $\mathbf{2}$ | 16 |
|  | $\mathbf{2}$ |  |  | 22 |
|  |  |  | $\mathbf{2}$ | 29 |
| 34 | 16 | 22 | 16 | $\mathbf{+}$ |

The sum for each column and row is given.
$(3)=$
禺 $\qquad$
$\square$ If you know
$79+39=118$
Then what is $79+37$ ?

F, I, G, L, H, O,
$\qquad$ , R, J, U

2 less than 452
Write this number:
6 hundreds, 2 thousands

$$
\begin{array}{r}
176 \\
+\quad 45 \\
\hline
\end{array}
$$

double 50

68, 85, 102, $\qquad$ 136, 153, 170, 187, 204, 221

$$
\mathrm{C}, \mathrm{~F}, \mathrm{I}, \mathrm{~L}, \ldots, \mathrm{R}, \mathrm{U},
$$ X

Name:

| $\frac{1}{2}$ |  |  |  |  |  | $\frac{1}{2}$ |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\frac{1}{3}$ |  |  |  | $\frac{1}{3}$ |  |  |  | $\frac{1}{3}$ |  |  |  |
| $\frac{1}{4}$ |  |  | $\frac{1}{4}$ |  |  | $\frac{1}{4}$ |  |  | $\frac{1}{4}$ |  |  |
| $\frac{1}{7}$ |  | $\frac{1}{7}$ |  | $\frac{1}{7}$ |  |  | $\frac{1}{7}$ |  | $\frac{1}{7}$ |  | $\frac{1}{7}$ |
| $\frac{1}{8}$ |  | $\frac{1}{8}$ |  |  | $\frac{1}{8}$ |  |  | $\frac{1}{8}$ | $\frac{1}{8}$ |  | $\frac{1}{8}$ |
| $\frac{1}{11}$ | $\frac{1}{11}$ | $\frac{1}{11}$ |  |  |  |  | $\frac{1}{11}$ | $\frac{1}{11}$ | $\frac{1}{11}$ | $\frac{1}{11}$ | $\frac{1}{11}$ |
| $\frac{1}{12}$ | $\frac{1}{12}$ | $\frac{1}{12}$ | $\frac{1}{12}$ | $\frac{1}{12}$ | $\frac{1}{12}$ | $\frac{1}{12}$ | $\frac{1}{12}$ | $\frac{1}{12}$ | $\frac{1}{12}$ | $\frac{1}{12}$ | $\frac{1}{12}$ |

Compare.

| $\frac{10}{11}:$ | $\frac{1}{2} \vdots \cdots \frac{2}{4}$ | $\frac{1}{2} \vdots \cdots ;$ | $\frac{3}{7}: \ldots \frac{1}{8}$ |
| :---: | :---: | :---: | :---: |
| $\frac{2}{3}:$ | $\frac{3}{4}: \ldots \frac{6}{8}$ | $\frac{2}{3} \vdots \cdots \frac{5}{8}$ | $\frac{9}{12}: \ldots \frac{2}{4}$ |
| $\frac{1}{4}: \ldots ; \frac{9}{12}$ | $\frac{2}{3}: \cdots ; \frac{1}{2}$ | $\frac{4}{8}: \cdots, \frac{6}{12}$ | $\frac{2}{4} \vdots$ |
| $\frac{4}{7}: \cdots ; \frac{3}{4}$ | $\frac{1}{2}:$ | $\frac{8}{12}: \cdots$ | $\frac{2}{3}:$ |
| $\frac{10}{11}: \cdots \frac{2}{4}$ | $\frac{4}{11}: \cdots: \frac{3}{7}$ | $\frac{2}{4} \vdots ; \frac{6}{12}$ | $\frac{4}{12}: \cdots \frac{1}{3}$ |
| $\frac{1}{3}:$ | $\frac{7}{11}: \cdots, \frac{2}{8}$ | $\frac{1}{2} \vdots ;$ | $\frac{7}{12}:$ |




