Name: _____

Mental Math

= Do it in your head!

Oh!

	+1	-1	+10	-10	+3	-3
22						
31						
80						
76						
55						
664						
148						
359						
273						
827						

Name: _____

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

Example:
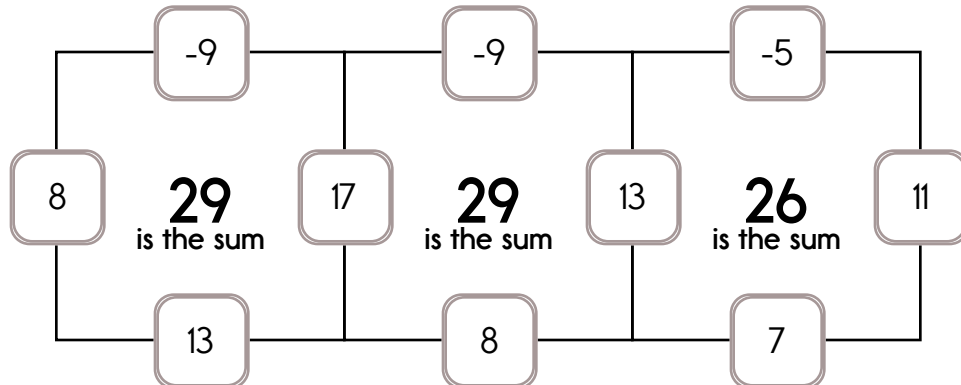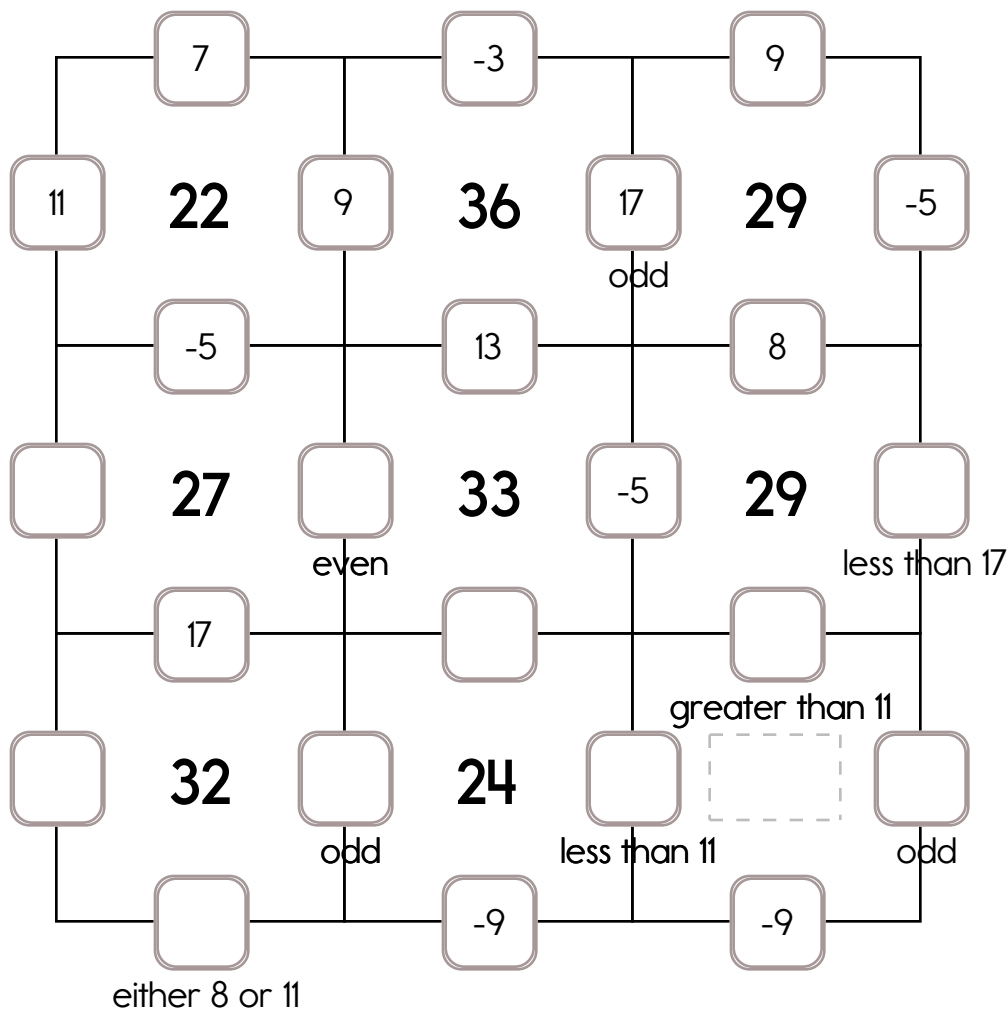8 + 17 + 13 - 9 = 29

Example:
13 + 11 + 7 - 5 = 26

Sample:

	-9		-9		-5	
8	**29** is the sum	17	**29** is the sum	13	**26** is the sum	11
	13		8		7	

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: -5, -3, or -9. The other three numbers have to all be DIFFERENT and must be from these: 8, 13, 7, 17, 11, or 9.
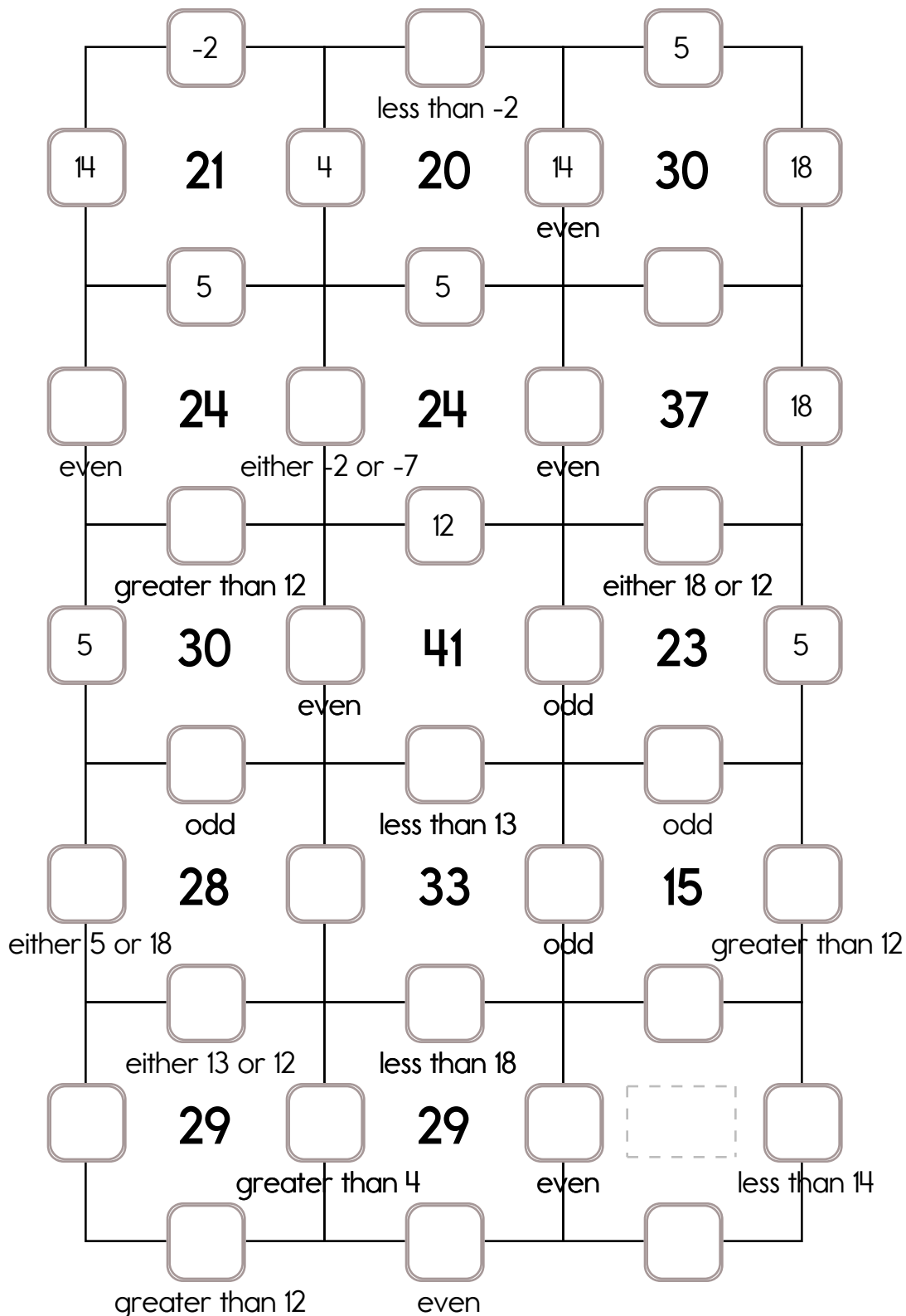
Puzzle grid:

Row top: 7 — -3 — 9

- 11 | **22** | 9 | **36** | 17 (odd) | **29** | -5
- -5 | | 13 | | 8
- (blank) | **27** | (blank) | **33** | -5 | **29** | (blank, less than 17)
- 17 | | (blank) | | (blank, greater than 11)
- (blank) | **32** | (blank, odd) | **24** | (blank, less than 11) | (dashed blank, greater than 11) | (blank, odd)
- (blank, either 8 or 11) | -9 | -9

Name: _____

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, -3, or -2.
The other three numbers have to all be DIFFERENT and must be from these: 12, 18, 5, 13, 14, or 4.

-2

less than -2

5

14   **21**   4   **20**   14   **30**   18

even

5   5

24   **24**   37   18

even   either -2 or -7   even

greater than 12   12   either 18 or 12

5   **30**   **41**   **23**   5

even   odd

odd   less than 13   odd

28   **33**   **15**

either 5 or 18   odd   greater than 12

either 13 or 12   less than 18

29   **29**

greater than 4   even   less than 14

greater than 12   even

Name: _____

Mrs. Hall had 14 needles. She bought 4 more. How many needles does she have now?	Jacob is 2 years older than his best friend Nathan. Nathan is 13. How old is Jacob?	Cindy has 95 cents. She spends 79 cents for jelly. How much does she have left?

Sudoku Sums of 6

Each row, column, and box must have the numbers 1 through 4.
Hint: Look for sudoku sums. The sum of the two boxes inside of the dashed lines is 6.

Here is an example of a sudoku sum of 6:

2	4

	4		
3			
	3	4	
		1	

$$\begin{array}{r} 1\,9 \\ 1\,0 \\ +\,5\,0 \\ \hline \end{array}$$

$$\begin{array}{r} 9\,2 \\ 7\,2 \\ +\,9\,6 \\ \hline \end{array}$$

6 tens and 5 ones ○ 6 ○ 65 ○ 650	Which number has a 6 in the tens place? ○ 618 ○ 861 ○ 816	8:00 a.m. to 6:00 p.m. ○ 4 hours ○ 5 hours ○ 10 hours ○ 6 hours

word root **nov** can mean **new**   **novice, novelty**

Name: _____

| Nathan and his father made coleslaw. They used six and a half cups of cabbage, one cup of carrots, and a third of a cup of onions. How many cups of coleslaw did they make? | Anna made tiny little kites to put in her window. She used red, green, blue, yellow, orange, purple, and white paper to make the kites. She made three kites of each color. How many kites did she make in all? | Connor had three dollar bills, five quarters, and seven nickels. He spent $1.81 on a Groundhog Day poster. How much money does he have left? |

Fill in the numbers.

| | 14 |
| | 24 |

| | |
| | 58 |

| 37 | |
| | |

| 68 | |
| | |

| | 82 |
| | |

| 58 | |
| | |

| | |
| | 32 |

| | 80 |

| | |
| | 35 |

| | |
| | 22 |

Write this number using words.

51

_____

4 x 1   = _____

3 - 2 = [ ]   5 + 8 = [ ]   6 + 2 = [ ]   15 - 8 = [ ]

Name: _____

The vowels are missing in the word search.
Fill in the missing vowels and circle the words.

```
R  R  R  H  B     R  Y  Y  C
F  R  O  N  T     Q  H
H  H  H     W     S  H  C  C
N     M  S              R
D  W  C  P     R
H     S  H     R     S  S  T
D     Y  S  T     C     S  H
H  R  C  R  N  S     Q  N
   R        H     S     Y  R
N  D  F  D        F  M
```

WASH • HIRE • PURE • BURY
ACROSS • FRONT • DEAF • HOSE
AUTHOR • NAME

```
  2 2
+ 3 8
```

You ask Rosa for the time.
She says it is half-past 8.
Write the time on your digital
clock:

[:   ]
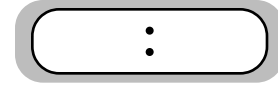
14 + 9   = _____

2)10   7)35

5)20   2)8

Write the final part of each math analogy.

one half of twelve : 6 :: one half of six : [_____]

Explain why you think your answer is correct.

68 + 84 : even :: 15 + 57 : [_____]

Explain why you think your answer is correct.

8 - 1 = [ ]   6 + 3 = [ ]   8 + 5 = [ ]   4 + 1 = [ ]

Name: _____

Sudoku Sums of 6

Each row, column, and box must have the numbers 1 through 4.
Hint: Look for sudoku sums. The sum of the two boxes inside of
the dashed lines is 6.

Here is an example of a sudoku sum of 6:

2	4

3		4	
		3	
	2		

○ sliev

○ sleav

○ sleve

○ sleeve

```
    3
    4
+ 6 8
```

Count by 3s.

27 ____ ____ ____ 39 ____

```
 7 9
- 2 2
```

```
   5
 x 4
```

```
   5
 x 6
```

```
   1
 x 8
```

```
    3
 x  7
```

```
  1 2
 x   3
```

```
   6
 x 2
```

```
   2
 x 4
```

Explain what is meant by the underlined phrase.

My mom took one look outside and exclaimed, "It's raining cats and
dogs out there!"

_____

10 + [ ] = 24

29 + [ ] = 39

4 + [ ] = 6   32 + [ ] = 34   13 + [ ] = 33   15 + [ ] = 24

Name: _____

59 + 42	142 - 61	77 + 42	100 - 84	17 + 93	61 - 26
84 + 32	148 - 72	94 + 16	85 + 18	107 - 10	161 - 62
52 + 82	142 - 85	76 - 32	22 + 96	90 + 35	159 - 99
42 + 64	77 - 66	41 + 62	94 - 56	90 + 53	102 - 84
73 + 54	79 - 42	113 - 62	20 + 19	63 - 48	78 + 63
179 - 91	90 + 90	43 - 13	49 + 58	12 + 91	149 - 87
48 + 36	107 - 21	28 + 48	156 - 69	152 - 59	25 + 31

8
+ 5
[ ]

+ 6
[ ]

+ 7
[ ]

+ 7
33

- [ ]
26

- [ ]
22

+ [ ]
27

- 5
[ ]

+ 9
31

- [ ]
25

+ [ ]
32

Name: _____

Mental Math — #1 —

☺ Start with the sum of 9 and 10.   <u>19</u>

☺ Add the number of legs on 8 pigs.
2 6 5 1 5 8 1 6 6 9 (Circle your answer to double check you are correct.) ____

☺ Add half of 12.
9 3 1 5 5 7 8 0 4 5   ____

☺ Add the digits in your number. The sum of that is your new number.
7 1 2 0 5 8 1 3 2 4   ____

☺ Add half of 8.
5 3 1 8 4 1 6 9 3 1   ____
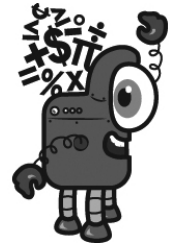
Mental Math — #2 —

✿ Start with the product of 8 and 7.
7 7 9 3 8 7 4 5 6 0 (Circle your answer to double check you are correct.) ____

✿ Subtract 4 tens.
7 9 3 1 6 6 8 4 5 3   ____

✿ Add the number of days in a week.
8 6 2 5 1 5 2 3 3 1   ____

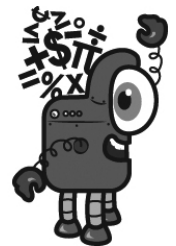✿ Add the digits in your number. The sum of that is your new number.
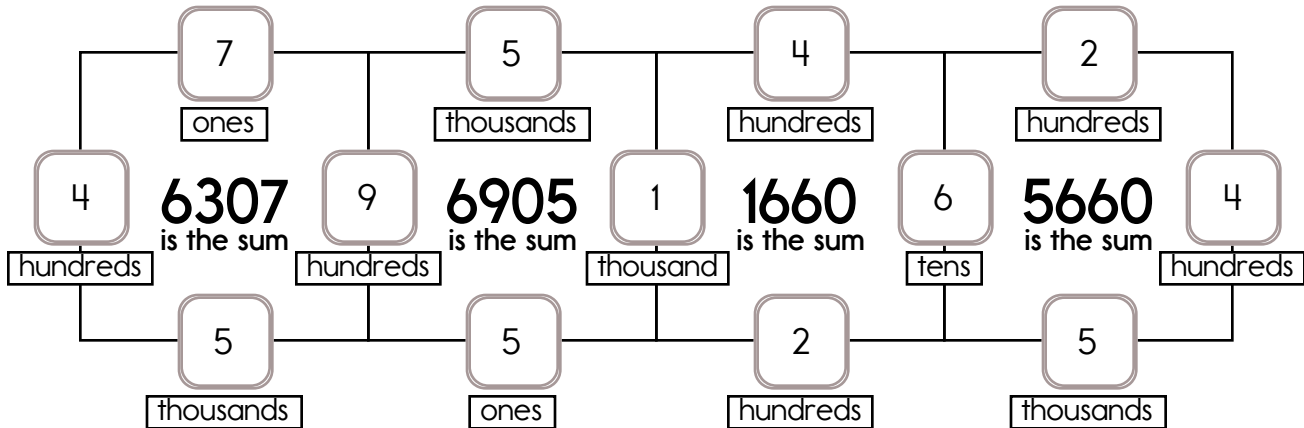5 5 6 0 4 9 1 2 5 7   ____

✿ Add a dozen.
3 6 1 7 1 4 4 9 5 8   ____

Name: _____

Fill in the missing numbers. How? The sum of the four surrounding numbers is in the center of each square.

Example:

400 + 900 + 7 + 5000 = 6307   1000 + 60 + 400 + 200 = 1660

7 ones	5 thousands	4 hundreds	2 hundreds

4 hundreds | **6307** is the sum | 9 hundreds | **6905** is the sum | 1 thousand | **1660** is the sum | 6 tens | **5660** is the sum | 4 hundreds

5 thousands	5 ones	2 hundreds	5 thousands

Fill in the missing numbers. How? The sum of the four surrounding numbers is in the center of each square.

2 hundreds	9 hundreds	5 thousands	5 thousands

9 hundreds | **2130** | 1 thousand | 2 hundreds | 3 tens | 9 hundreds

3 tens	5 ones	9 hundreds	4 hundreds

9 hundreds | 4 hundreds | 5 thousands | 5 ones | 2 hundreds

5 thousands	1 thousand	2 hundreds	1 thousand

8 ones | 2 hundreds | 4 hundreds | 9 hundreds | 8 ones

4 hundreds	8 ones	6 tens	4 hundreds

12 - 9 = ☐	8 + 6 = ☐	11 - 2 = ☐	5 + 2 = ☐

Name: _____

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: 1 ten, 2 tens, or 3 tens.

The other three numbers have to all be DIFFERENT and must be from these: 6 ones, 1 one, 9

ones, 4 ones, or 7 ones.

	7 ones		1 ten		☐ tens	
1 ten	**27**	6 ones	**21**	4 ones	**31**	6 ones
	4 ones		☐ one		1 one	
3 tens	**47**	☐ ones	**21**	☐ ones	**22**	☐ ones
	☐ ones		☐ ten		☐ ten	
☐ one	**42**	4 ones	**24**	☐ one	**27**	7 ones
	☐ tens		☐ ones		☐ ones	
☐ ones	**44**	☐ ones	**32**	☐ ten	☐	☐ ones
	☐ one		☐ ones		☐ ones	

5 3 - 1   =   1 x 9   =

$$30 + \boxed{} = 36$$
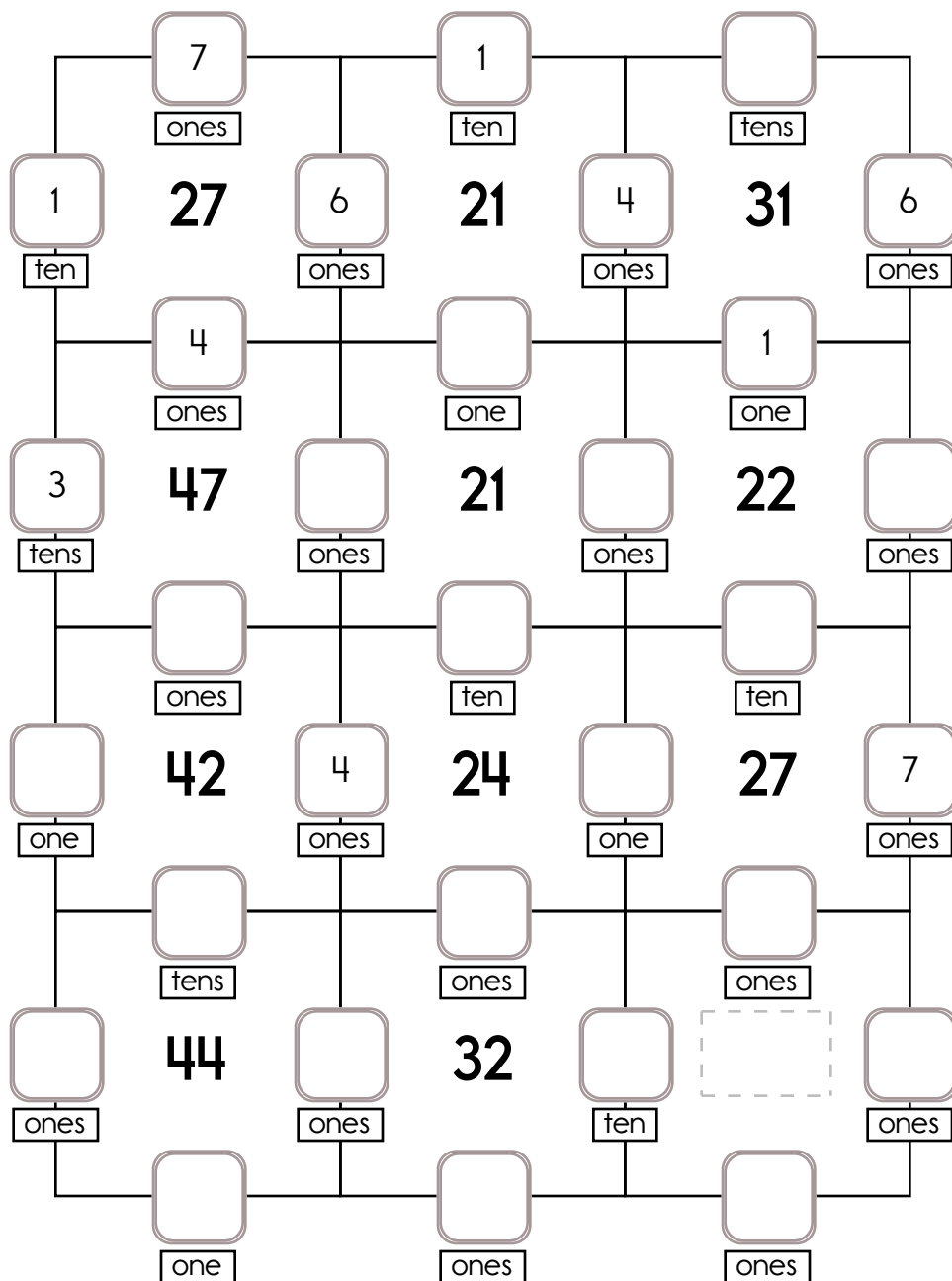
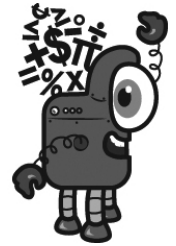$$12 + \boxed{} = 28$$

Name: _____

Mental Math — #1 —

❖ Start with the number 613. **613**

❖ Add the digits in your number. The
sum of that is your new number. _____
4 7 3 6 1 0 7 5 8 2 (Circle your answer to double check you are correct.)

❖ Increase that number by 13. _____
3 9 5 2 1 2 3 1 6 9

❖ Add the number of inches in 1 foot. _____
8 4 2 3 6 6 4 3 5 1

❖ Divide by 5. _____
7 9 3 1 6 5 7 6 4 3

Mental Math — #2 —

▶ Start with the product of 9 and 5. _____
3 9 5 4 5 9 8 0 1 6 (Circle your answer to double check you are correct.)

▶ Add the number of cups in 1 quart. _____
4 9 6 7 5 5 7 7 9 9

▶ Divide by 7. _____
3 4 4 5 8 6 5 8 7 4

▶ Add 2 hundreds. _____
4 9 3 2 0 7 6 8 5 3

▶ Round to the nearest ten. _____
7 3 4 1 8 2 1 0 5 1

Name: _____

Each box needs a number from 1 to 9. You may re-use numbers.

One set of sums has been done for you.

Puzzle 1 (left grid):

- sum of 9 ↓
- sum of 4 ↓
- sum of 9 →
- sum of 7 ↓
- sum of 9 ↓
- sum of 5 → | 1 | 1 | 3
- sum of 6 ↓
- sum of 5 ↓
- sum of 7 →
- sum of 9 →
- sum of 6 ↓
- sum of 6 →
- sum of 9 →
- sum of 6 →

Puzzle 2 (right grid):

- sum of 5 ↓
- sum of 6 ↓
- sum of 8 ↓
- sum of 7 →
- sum of 6 ↓
- sum of 9 ↓
- sum of 10 →
- sum of 4 →
- sum of 9 ↓
- sum of 7 ↓
- sum of 7 → | 1 | 5 | 1
- sum of 8 ↓
- sum of 7 ↓
- sum of 10 →
- sum of 3 →

- ◯ samoene
- ◯ smoene
- ◯ suhwuhn
- ◯ someone

```
      4
x     9
```

Soccer Goals

Kevin	7
Joe	5
Mike	1

Who scored the most goals?

_____

Who scored the least number of goals?

_____

Hannah bought 2 books of poetry. The first book cost $13.61. The other book cost $17.40. How much more did the second book of poetry cost than the first one?

```
      3                8
x     1            x 1 1
```

What day comes after Tuesday?

_____

```
  3 8          4 0          8 9
- 1 7        - 3 6        - 8 5
```

word root **fract** can mean **break**   fracture, infraction

Name: _____

Complete each analogy with the best word.

Spot	underground
islands	mountains
honey	grandpa
bark	doctor
queen	dad
hive	kitten
space	puppy
drone	patient
tie	shot
emergency room	son

bear : cub ::

dog : _____

mother : mom ::

father : _____

dental assistant : dentist ::

nurse : _____

ant : colony ::

bee : _____

Write a word problem for
5 x 3 = 15.

$$\begin{array}{r} 4\,0 \\ +\,5\,7 \\ \hline \end{array}$$

$3\overline{)18}$ $5\overline{)40}$

Write the correct symbol.

<   =   >

367 ◯ 367

$4\overline{)8}$ $2\overline{)16}$

$$\begin{array}{r} 1\,0 \\ \times\ \ \ 7 \\ \hline \end{array}$$

$$\begin{array}{r} 4\,9 \\ +\,9\,2 \\ \hline \end{array}$$

word root **ver** can mean **truth**   veracious, verification, veritable