Name: _____
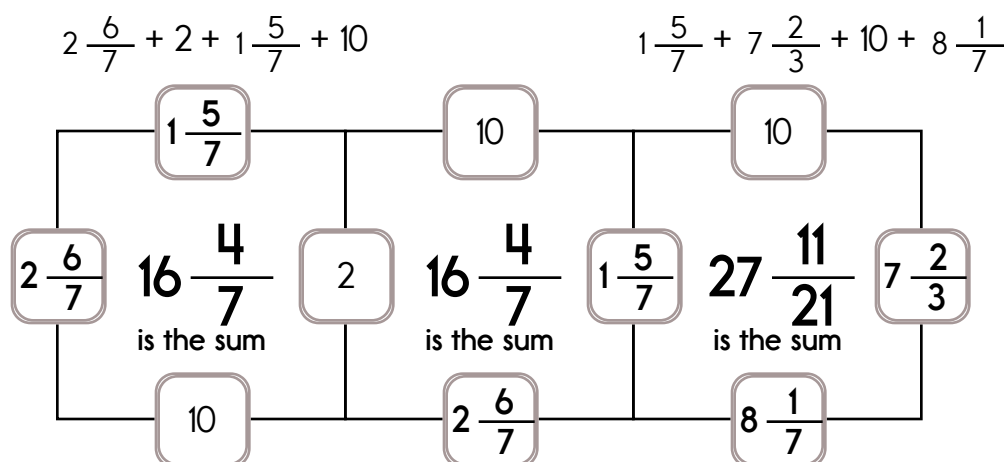
This puzzle has a large number in the middle, which is the sum of the four numbers that surround it.
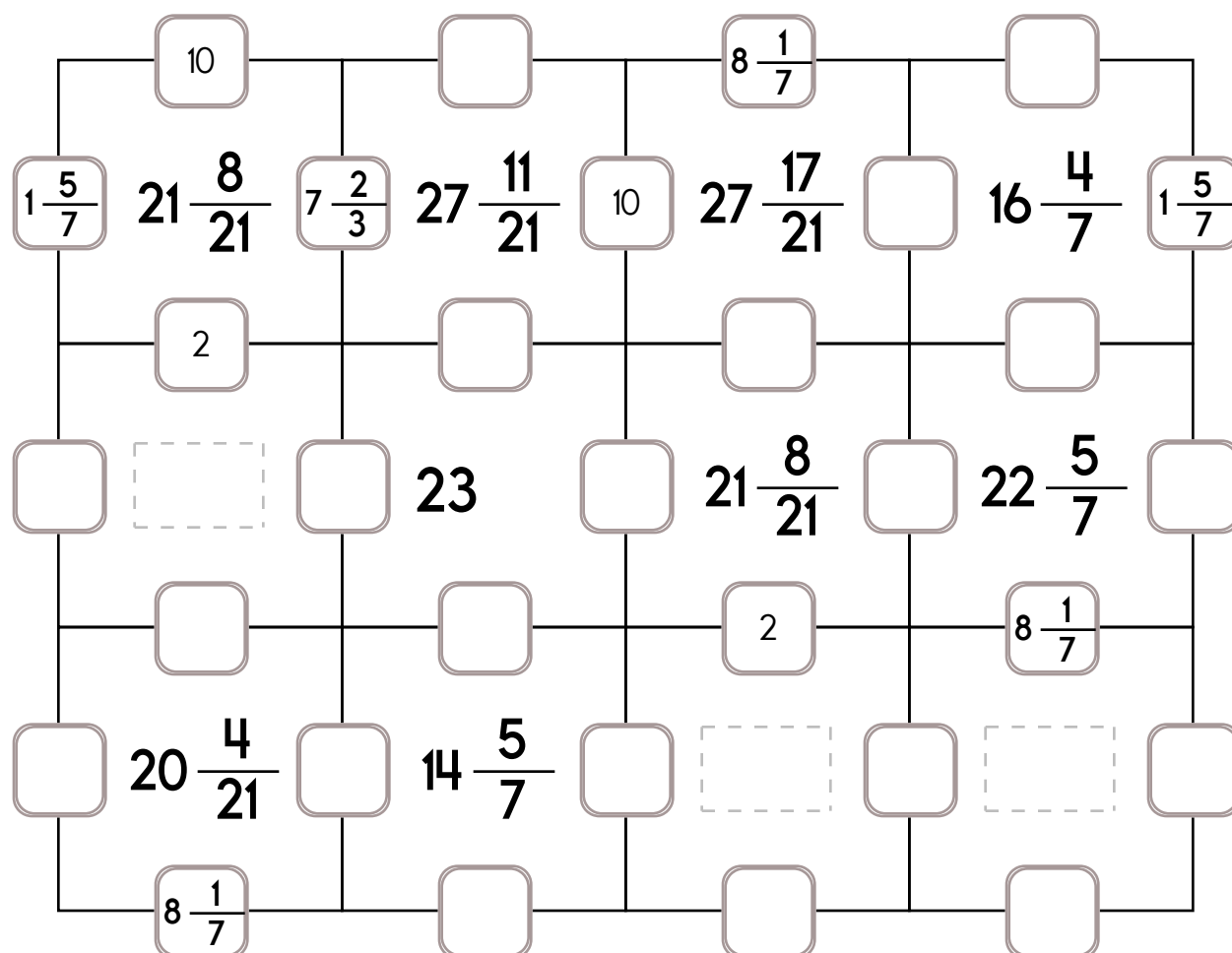
$2\frac{6}{7} + 2 + 1\frac{5}{7} + 10$ $1\frac{5}{7} + 7\frac{2}{3} + 10 + 8\frac{1}{7}$

Sample:

	$1\frac{5}{7}$		10		10	
$2\frac{6}{7}$	$16\frac{4}{7}$ is the sum	2	$16\frac{4}{7}$ is the sum	$1\frac{5}{7}$	$27\frac{11}{21}$ is the sum	$7\frac{2}{3}$
	10		$2\frac{6}{7}$		$8\frac{1}{7}$	

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: $2\frac{6}{7}$, $7\frac{2}{3}$, or $\frac{1}{3}$.

The other three numbers have to all be DIFFERENT and must be from these: 2, $8\frac{1}{7}$, 10, or $1\frac{5}{7}$.

	10		☐		$8\frac{1}{7}$		☐	
$1\frac{5}{7}$	$21\frac{8}{21}$	$7\frac{2}{3}$	$27\frac{11}{21}$	10	$27\frac{17}{21}$	☐	$16\frac{4}{7}$	$1\frac{5}{7}$
	2		☐		☐		☐	
☐	⬚	☐	23	☐	$21\frac{8}{21}$	☐	$22\frac{5}{7}$	☐
	☐		☐		2		$8\frac{1}{7}$	
☐	$20\frac{4}{21}$	☐	$14\frac{5}{7}$	☐	⬚	☐	⬚	☐
	$8\frac{1}{7}$		☐		☐		☐	

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: $6\frac{1}{3}$, $9\frac{2}{7}$, or $4\frac{1}{2}$.

The other three numbers have to all be DIFFERENT and must be from these: $5\frac{2}{3}$, 6, 4, or 3.

$5\frac{2}{3}$		3	
6 22	4 $20\frac{1}{6}$	$19\frac{1}{6}$	$20\frac{1}{6}$ 4
$6\frac{1}{3}$			
19	$5\frac{2}{3}$ $20\frac{1}{6}$	$20\frac{1}{6}$	$19\frac{1}{6}$ $5\frac{2}{3}$
	4		
21	$19\frac{1}{3}$	22	$23\frac{20}{21}$
	$19\frac{1}{3}$	$23\frac{20}{21}$	$23\frac{20}{21}$
$17\frac{1}{6}$	$20\frac{1}{6}$		

Name: _____

Make change. You can use $20, $10, $5, $1, 25¢, 10¢, 5¢, or 1¢.

Use the fewest bills and coins to make $37.44.

			$1	

◯ ◯ ◯ ◯ ◯ ◯ (1¢)

Use the fewest bills and coins to make $43.47.

Use the fewest bills and coins to make $33.17.

Use the fewest bills and coins to make $43.28.

$\begin{array}{r} 4\ 9 \\ +\ 3\ 1 \\ \hline \end{array}$	(8 + 3) + 9 =	20 ÷ 4 = _____	$\begin{array}{r} 4\ 1 \\ -\ 3\ 0 \\ \hline \end{array}$

word root **ef** can mean **outer**   **effusive, efface**

Name: _____

Mr. Taylor wanted to go to his wife's office, but he forgot her office number. He knew that it was a number less than 116. It had 3 digits and it was a prime number. What are the possible office numbers for his wife?

Holly spent $38 at the magic show. She bought an autographed picture of the Wonderful Wizard for $12.30 and two T-shirts that were the same price. How much did she pay for each T-shirt?

Rewrite this mixed number as an improper fraction.

$$12 \frac{3}{5}$$

In each group, circle the number that has the greatest value, and put a square around the number that has the least value.

8^4	8^5	8^1

6^3	6^4	6^2

Name: _____

A 9-inch gingerbread pan holds 5 $\frac{3}{4}$ cups of batter. Maria has 6 $\frac{5}{8}$ cups of batter. How much batter will be left after she fills the 9-inch pan?

Jack rides his horse 45 minutes every morning and 90 minutes every afternoon. If he rides every day for 20 days, how many minutes will he ride?
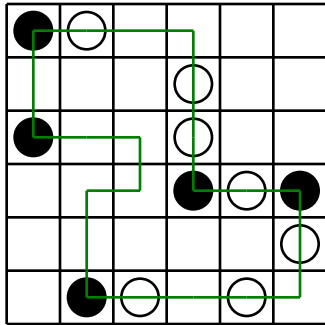
Sarah bought 3 $\frac{1}{4}$ pounds of candy to decorate the gingerbread houses. If $\frac{1}{5}$ of a pound of the candy was peppermint, how many pounds were not peppermint?

Name: _____

Justin just got a job at Lulu's Café cleaning off tables. The owner said that Justin could be a server next summer if he does a good job. Justin makes $7.45 per hour. If Justin works $3\frac{1}{2}$ hours a day for three days each week, how much money will he make each week?

Mrs. Walker is making fruitcakes at the bakery. Her recipe calls for $\frac{1}{3}$ of a cup of molasses and makes 5 fruitcakes. How much molasses will she need to make 30 fruitcakes?

Max and his two friends wrote a list of things they love about America. Max has twice as many reasons on his list as Jason. Jason has 12 reasons on his list. Jason has 4 times as many reasons on his list as Peter. How many reasons do they have in all?

Look at the chart.
The number 29 is in the 3rd column of the 1st row.

21	25	29	33	37
41	45	49	53	57
61	65	69	73	77
81	85	89	93	97

What number is in the 5th column of the 3rd row?

If the pattern continues, what number would go in the 3rd column of the 6th row?

What should replace the R in this equation?

$20 \div R + 15 = 17$

9,359 - 6,197 = _____

1 cm = 10 mm

15 cm = _____ mm

9 x 10 = _____

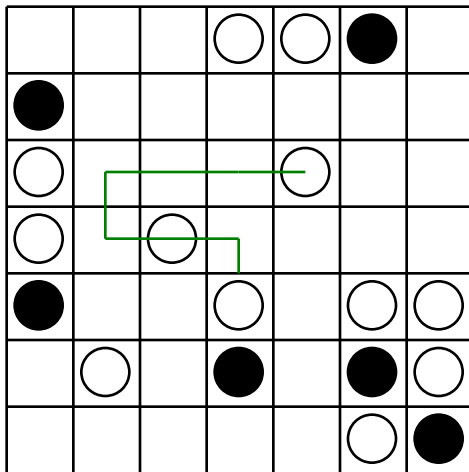How many feet are in 9 yards?

_____ feet

77 ÷ 7 =

Name: _____

Can you draw ONE line going through ALL the circles? Your line can go left, right, up, or down. It cannot go diagonally. Your line cannot cross over any part of the line you have already drawn.
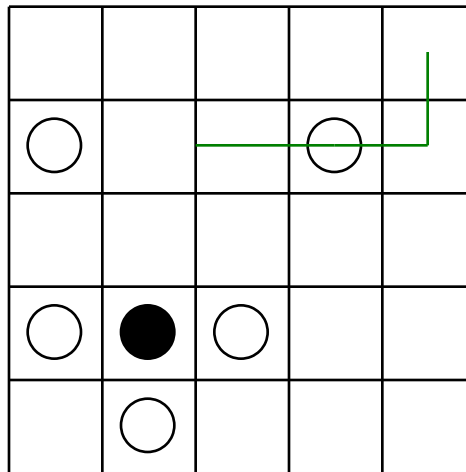
You MUST TURN in a BLACK circle. Do NOT TURN in a WHITE circle.

The puzzle on the left shows a correct line going through all the circles.

Finish the line: Finish the line: Finish the line:

7,728 - 5,188 = _____

9 x 4 = _____

5 x 6 =
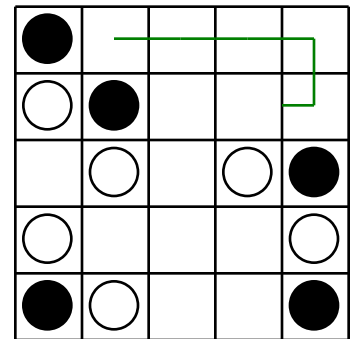
$$\begin{array}{r} 4\ 1\ 2 \\ +\ 2\ 9\ 8 \\ \hline \end{array}$$

Can 988 be evenly divided by 11? Circle:

988 is evenly divisible by 11

988 is NOT evenly divisible by 11

$$\begin{array}{r} 2\ 9\ 5 \\ -\ 2\ 4\ 5 \\ \hline \end{array}$$

10 x 6 =

7,969 - 5,523 = _____

Name: _____

Four-fifths of the children in Martin's class want to go outside. If Martin agrees with the majority, will the class stay inside or go outside?

15 kg = _____ g

3 x 2 = _____

18 ÷ 3 =

2 x 2 = _____

4 x 2 = _____

Circle the greatest number:

73,482

71,308,259,643

54,029,786

673,821,940

Rewrite these in increasing order of length:

3 dm, 93 mm, 439 km, 440 cm

10 x 4 = _____

9,621 - 9,397 = _____

The number 4774 is a palindrome. Any number which reads the same in both directions is a palindrome number.

Hannah is thinking of a palindrome number.
The number is less than 90,000.
The number is greater than 80,000.
The number has 5 digits.
The digits, 418, are a part of the number in this exact order.
The sum of the first three digits in the number is 13.
What is her number?

Circle the addition property for 29 + 153 = 153 + 29.

associative property

commutative property

7 x 8 = _____

Name: _____

| 3 • 5 • + • 8 • 3 • 4 • + • 0 • 6 • 5 • + • 5 • = • 1 • 6 • - • 6 |
| 2 • 7 • 7 |

Use the pieces above to help you fill in the runaway math puzzle.

5 x 6 = _____
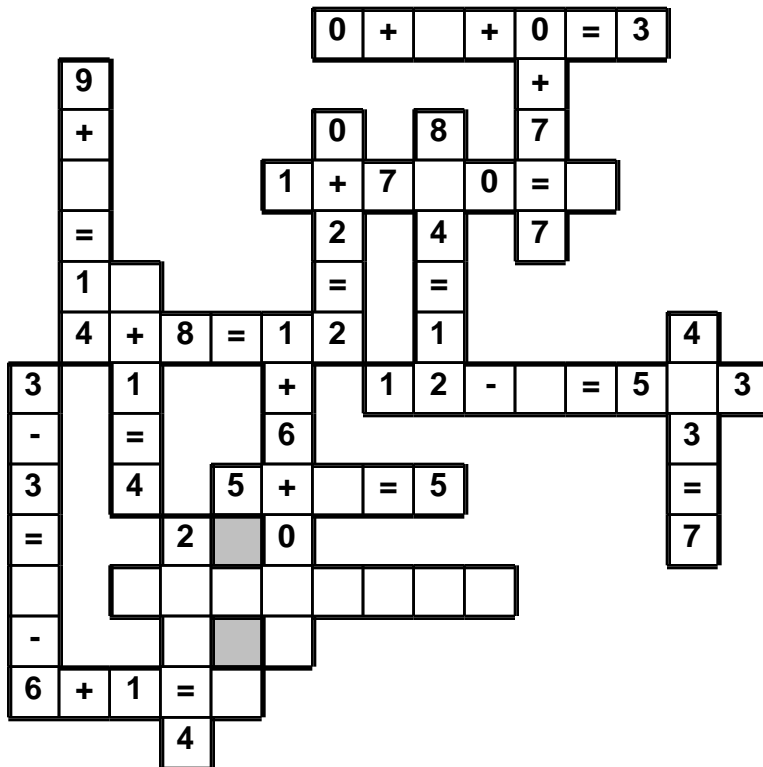
Fill in the missing operations to complete this equation:

22 _____ 11 _____ 8 = 10

60 ÷ 12 = _____

70 ÷ 7 = _____

8 x 12 = _____

3 x 9 = _____

Can 860 be evenly divided by 4? Circle:

860 is NOT evenly divisible by 4

860 is evenly divisible by 4

word root **andro** can mean **human**   **android, androgens**

Name: _____

Make a path by adding up the numbers. Do not visit a circle more than once. The first one is done.

START 4   9   3   4

9   2   6   1

1   7   8   1

5   9   2   **FINISH SUM: 23**

4 + _9_ + _2_ + _6_ + _1_ + _1_ = 23

START 7   10   3   4

16   14   14   2

4   1   18   **FINISH SUM: 66**

7 + _10_ + _14_ + _____ + _____ + _____ + _____ = 66

START 6   6   8   8

9   8   6   9

8   8   7   7

7   8   9   **FINISH SUM: 92**

Did you find a path? Write the equation.

START 4   6   6   3

5   6   2   3

8   9   1   4

3   3   7   **FINISH SUM: 30**

4 + ___ + ___ + ___ + ___ + ___ = 30

Name: _____

$7\overline{)210847}$ $3\overline{)7824}$ $5\overline{)21420}$

0.8 x 0.9

If s = 5 and v = -28 then what is 12s + 9v - 4v = ?

Use >, <, or = to complete.

$\frac{1}{11}$ ___ 45%

$\frac{2}{8}$ ___ 71%

12% ___ $\frac{1}{2}$

---

p - $68 = $30
What is the value of p?

---

7 x 7 x 7 = Z^y

What is the value of Z and y?

0.5 (0.8 (0.5 + 7)) =

$\frac{1}{x} + \frac{2}{7} = \frac{13}{21}$

x =

Convert $13\frac{6}{7}$ to an improper fraction.

If j = 10, z = -5, and a = 3 then what is j x z x a?

---

word root **bi** can mean **two**   biannual, bicentennial, bilateral

Name: _____

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

Example:

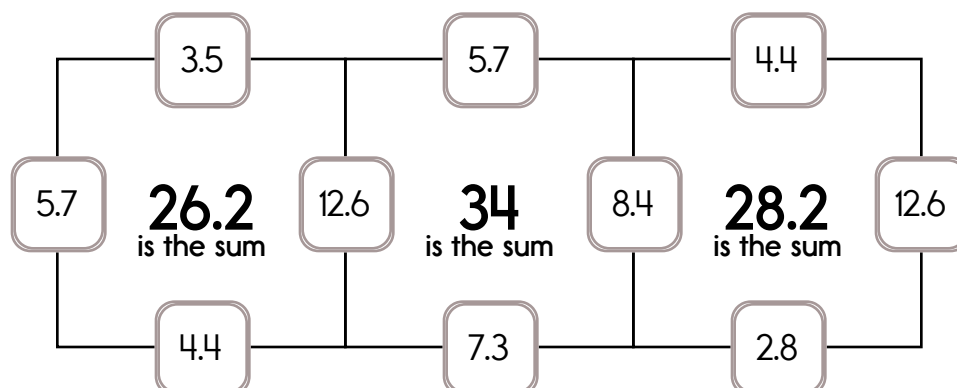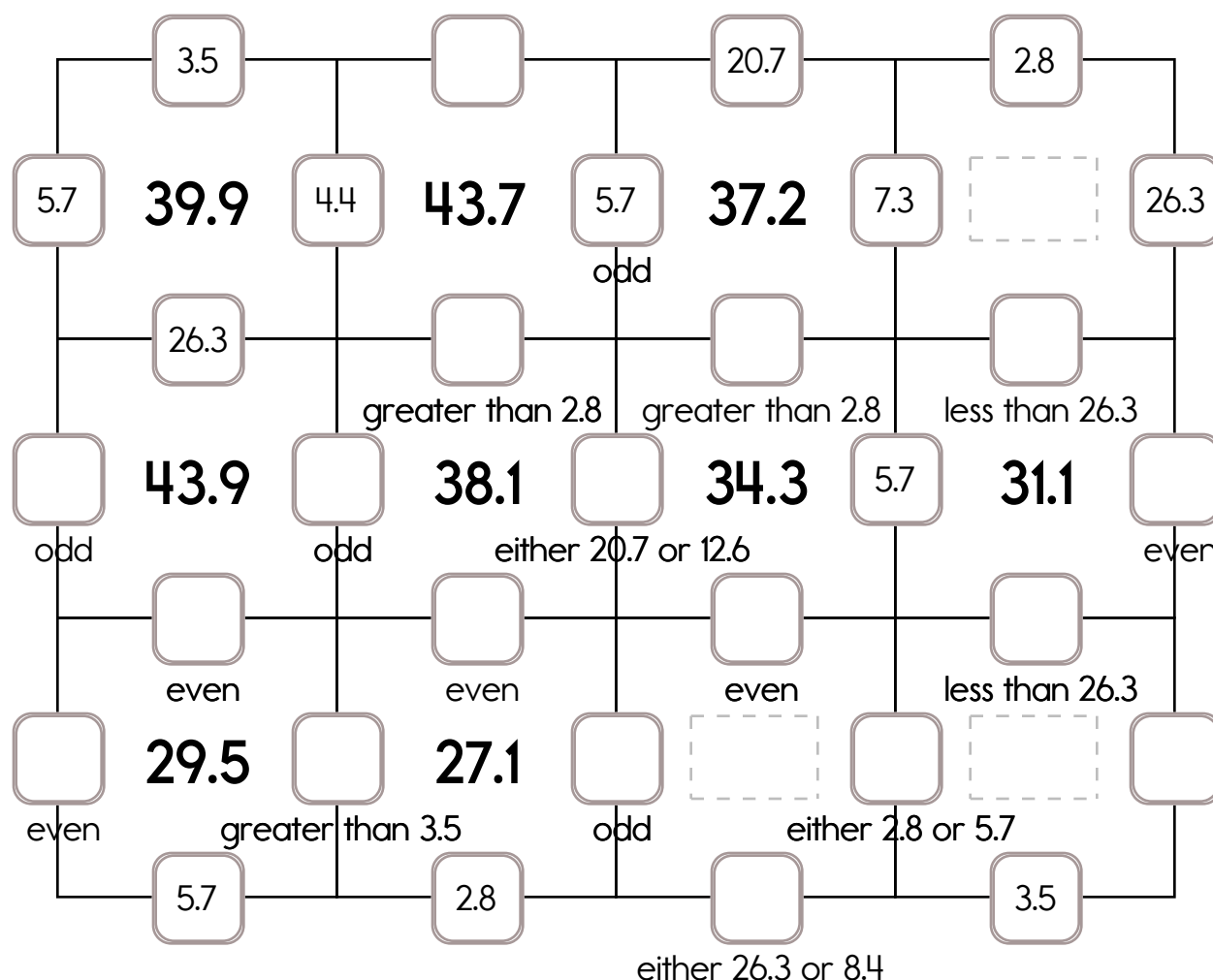5.7 + 12.6 + 3.5 + 4.4 = 26.2

Example:

8.4 + 12.6 + 4.4 + 2.8 = 28.2

Sample:

	3.5		5.7		4.4	
5.7	**26.2** is the sum	12.6	**34** is the sum	8.4	**28.2** is the sum	12.6
	4.4		7.3		2.8	

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: 20.7, 26.3, or 12.6. The other three numbers have to all be DIFFERENT and must be from these: 3.5, 5.7, 8.4, 2.8, 7.3, or 4.4.

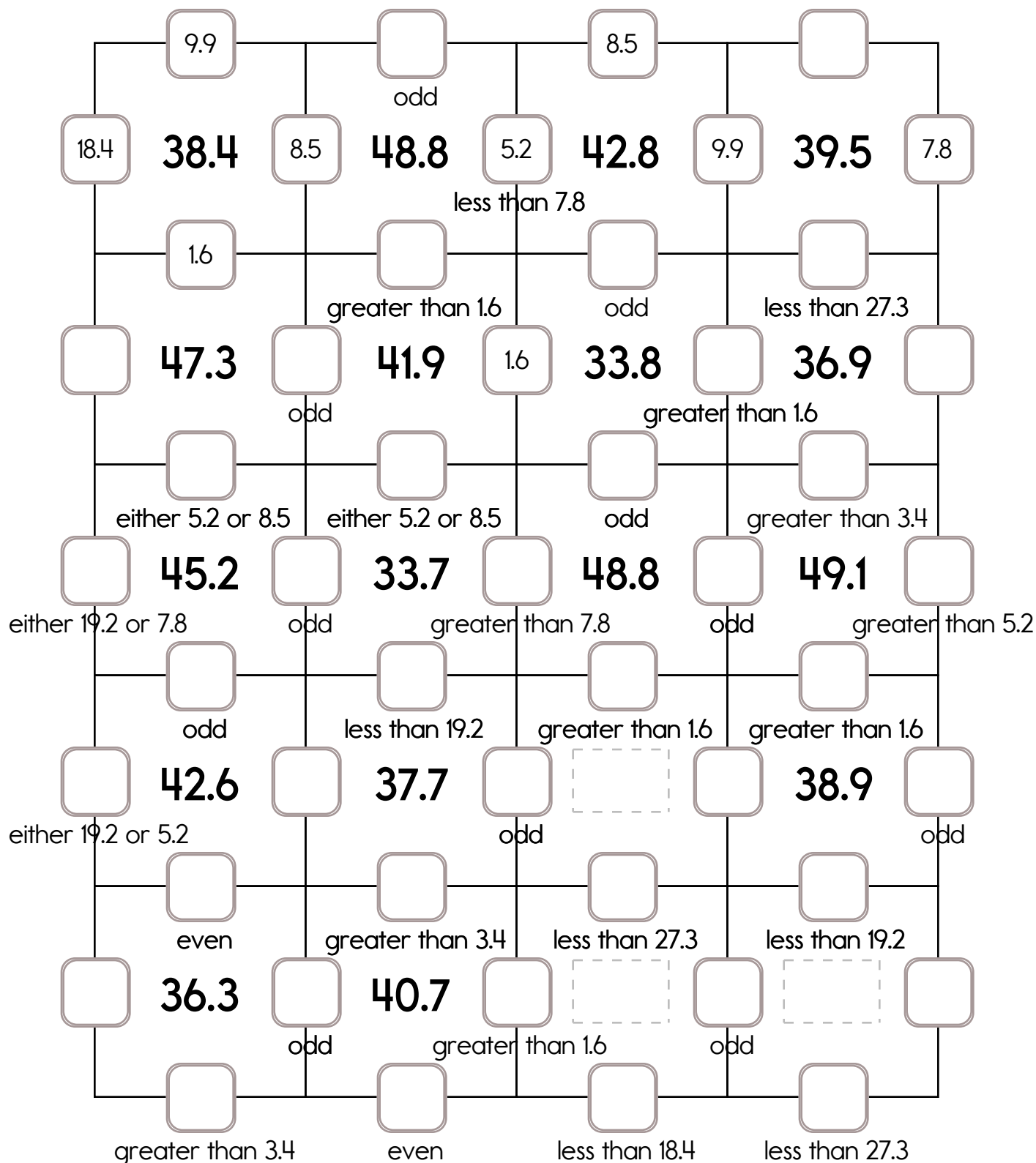|	3.5				20.7		2.8	
5.7	**39.9**	4.4	**43.7**	5.7	**37.2**	7.3	⬚	26.3
					odd			
	26.3		⬚		⬚		⬚	
			greater than 2.8		greater than 2.8		less than 26.3	
⬚	**43.9**	⬚	**38.1**	⬚	**34.3**	5.7	**31.1**	⬚
odd		odd		either 20.7 or 12.6				even
	⬚		⬚		⬚		⬚	
	even		even		even		less than 26.3	
⬚	**29.5**	⬚	**27.1**	⬚	⬚	⬚	⬚	
even		greater than 3.5		odd		either 2.8 or 5.7		
	5.7		2.8		⬚		3.5	

either 26.3 or 8.4

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: 27.3, 18.4, or 19.2. The other three numbers have to all be DIFFERENT and must be from these: 5.2, 7.8, 9.9, 1.6, 3.4, or 8.5.

9.9   8.5

odd

18.4   **38.4**   8.5   **48.8**   5.2   **42.8**   9.9   **39.5**   7.8

less than 7.8

1.6

greater than 1.6   odd   less than 27.3

47.3   **41.9**   1.6   **33.8**   **36.9**

odd   greater than 1.6

either 5.2 or 8.5   either 5.2 or 8.5   odd   greater than 3.4

45.2   **33.7**   **48.8**   **49.1**

either 19.2 or 7.8   odd   greater than 7.8   odd   greater than 5.2

odd   less than 19.2   greater than 1.6   greater than 1.6

42.6   **37.7**   **38.9**

either 19.2 or 5.2   odd   odd

even   greater than 3.4   less than 27.3   less than 19.2

36.3   **40.7**

odd   greater than 1.6   odd

greater than 3.4   even   less than 18.4   less than 27.3

Name: _____

Words can be to the RIGHT, DOWN, LEFT, or UP. Every letter is used ONCE.

```
        E  V  S  I  G  N  I  F  I  C  A  N  C  E
        P  X  O  H  S  E  I  N  O  M  I  T  S  E  T
        U  P  Y  C  B     M  S  S  U  S  L  L  I  H
        P  E  A  T  U  H  I  C  P  L  A  U  N  A  M
        P  R  G  O  R  A  K  A  M     L  A  M  B  D
        E  T  E  N  N  T  S  R  A  T  E  E  R  G  E
        T  R  E  S  U  L  T  F  R  O  R  Y  E  T  R
        S  S  T  I  R  T  N  E  M  E  G  A  N  A  M
```

Write the words found.

MANAGEMENT _____   RED _____   _____

_____   _____   _____

_____   _____   _____

_____   _____   _____

_____   _____   _____

_____   _____   _____

_____

What number is halfway between 4 and 23?

9 x 9 = _____

Jenna took three numbers greater than 1 and multiplied them. One number was four and the other number was fifteen. Of course, she forgot the last number, but she remembered the product was 360. Is this possible?

9 x 11 = _____

Write the missing family fact.

46 + 55 = 101
55 + 46 = 101
101 - 46 = 55

_____

20 ÷ 4 = _____