Name: _____

Complete each pattern. Write what the rule is.

48	44	40
36	32	
24	20	
12	8	

Complete each pattern. Write what the rule is.

301, 268, 237, 208, 181, 156, 133, _____, _____, 76, 61, 48, 37, 28

206, 179, 154, 131, _____, 91, 74, 59, 46, 35, _____

248, 219, _____, _____, 144, _____, _____, 87, 72, 59, 48, 39

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: $8\frac{1}{6}$, $4\frac{3}{4}$, or $5\frac{2}{9}$.

The other three numbers have to all be DIFFERENT and must be from these: $6\frac{5}{6}$, $7\frac{2}{3}$, $2\frac{1}{3}$, or $3\frac{1}{3}$.

Row 1: $6\frac{5}{6}$ $6\frac{5}{6}$

Row 2: $7\frac{2}{3}$ $23\frac{1}{18}$ $3\frac{1}{3}$ $17\frac{13}{18}$ $18\frac{1}{12}$ $3\frac{1}{3}$ $21\frac{1}{2}$

Row 3: $5\frac{2}{9}$ $5\frac{2}{9}$

Row 4: $6\frac{5}{6}$ $23\frac{1}{18}$ $23\frac{1}{18}$ 26 26

Row 5: $21\frac{1}{2}$ $17\frac{13}{18}$ $17\frac{1}{4}$

Row 6: $21\frac{7}{12}$ $23\frac{1}{18}$ $17\frac{1}{4}$ $17\frac{13}{18}$

Row 7: $20\frac{2}{3}$ $21\frac{1}{2}$

Name: _____

Draw a line to match each problem with the same answer.

| 15% of 20 | ● ● | 12% of 25 | 50% of 62 | ● ● | 80% of 45 |

| 39% of 200 | ● ● | 60% of 130 | 86% of 150 | ● | 90% of 170 |

| 68% of 100 | ● ● | 90% of 130 | 36% of 100 | ● ● | 75% of 172 |

| 78% of 150 | ● ● | 40% of 170 | 100% of 153 | ● ● | 20% of 155 |

How much money is 1 quarter, 7 dimes, 1 nickel, and 1 penny?

Write the missing family fact.

102 ÷ 17 = 6

6 x 17 = 102

17 x 6 = 102

Write $\frac{2}{10}$ in lowest terms.

How many minutes is it from 7:00 a.m. to 10:50 a.m.?

A rectangle is 34 cm on one side and 12 cm on another side. What is the perimeter?

Know how many inches in a foot? Okay, smarty pants, how many inches in 8 feet?

Draw a number line with 0, $\frac{1}{2}$, and 1. Show where $\frac{5}{7}$ would go. Is $\frac{5}{7}$ closer to 0, $\frac{1}{2}$, or 1?

Circle the three numbers whose product equals 270.

6   5   9

11   6   12

38, _____, 44, 50, 56, 65, 74, 86, 98, 113, 128, 146, 164, 185

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word root **infra** can mean **beneath**   **infrastructure**

Name: _____

Mrs. Martin purchased pizzas for the children who took part in the Marks School Science Fair. Each pizza cost $7.38. Twenty-two students each ate $\frac{3}{4}$ of a pizza, and 11 students each ate $\frac{1}{2}$ of a pizza. How much did it cost to buy pizzas for the students?

Ms. Johnson planned to show her horse in a show in England. The entry fee was 119.79 pounds sterling. The equation for changing pounds sterling to U.S. dollars is D = 1.81P. What is the entry fee in U.S. dollars? (Round off your answer to the nearest cent.)

The length of the main room at the Robert Burns Library is 37.8 feet. The width of the room is 25.1 feet. How many square yards of carpet will be needed to cover the entire floor? Round your answer to the nearest tenth.

```
   4 4
 + 4 1
```

Ava told Holly that she multiplied two consecutive whole numbers and the answer is 110. Holly doesn't believe that is possible. She thinks Holly must have multiplied wrong. Who is correct?

What time is 15 hours after 1:00 a.m.?

_____

```
   3 7
 - 1 5
```

```
   2 6 5
 - 1 1 2
```

88 ÷ 11 = _____

10 x 4 =

Rewrite these in increasing order of length:

485 dm, 587 mm, 160 cm, 771 km

10 x 11 = _____

Name: _____

How many feet are in 4 yards?

_____ feet

For 22,541,483,857,175, write the digit that is in the ten thousands place.

_____

The boys in your class each were given a ticket with a number on it. The numbers given out were: 7, 29, 25, 12, 13, 38, and 3. One ticket will be picked from a hat. What are the chances that the winning ticket number is divisible by 3?

Mary took three numbers greater than 1 and multiplied them. One number was four and the other number was fourteen. Of course, she forgot the last number, but she remembered the product was 784. Is this possible?

655 - 153 = _____

10 x 11 =

$$\begin{array}{r} 3\ 5\ 8 \\ +\ 4\ 4\ 9 \\ \hline \end{array}$$

Can 721 be evenly divided by 6? Circle:

721 is evenly divisible by 6

721 is NOT evenly divisible by 6

1 km = 1,000 m

8 km = _____ m

12 x 11 = _____

11 x 5 =

10 lb = _____ oz

Circle the greatest number:

768,421   903,508,913,567

4,242   50,178,693

Name: _____

Can 314 be evenly divided by 8? Circle:

314 is NOT evenly divisible by 8

314 is evenly divisible by 8

Three girls ran a race.
Amy was not as fast as Jessica.
Jessica ran past Rosa in the race and Rosa never caught up.
Who won the race? Do you have enough information to know?

322 + 922 = _____

33 ÷ 11 = _____

40 ÷ 8 =

Can 396 be evenly divided by 9? Circle:

396 is evenly divisible by 9

396 is NOT evenly divisible by 9

The letters F, G, J, L, N, P, Q, R, S, and Z do not have line symmetry. The rest of the letters in the alphabet do. Can you write someone's name where the complete name has line symmetry? Hint: You cannot use all of the letters. You could use B in a name, but M would not work.

984 - 617 = _____

word root **retro** can mean **backward**   **retrofit, retroactive**

Name: _____

8 • 5 • x • 6 • = • 3 • 0 • x • 8 • 4 • 1 • x • 2 • 8 • = • 6
9 • 2 • 3 • 6

Use the pieces above to help you fill in the runaway math puzzle.
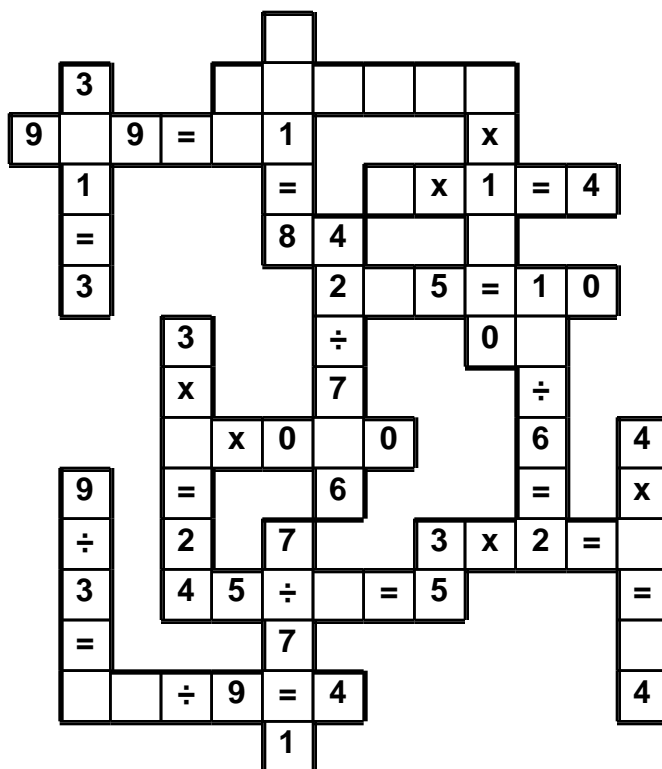
Jason took three numbers greater than 1 and multiplied them. One number was seven and the other number was fifteen. Of course, he forgot the last number, but he remembered the product was 281. Is this possible?

6 x 12 = _____   6 x 10 = _____

3 x 4 = _____

864 + 431 = _____

Write the missing family fact.

168 - 99 = 69
69 + 99 = 168
99 + 69 = 168

_____

word root **ment** can mean **that which**   **fragment**

Name: _____

This puzzle has a large number in the middle, which is the sum of the four numbers that surround it.
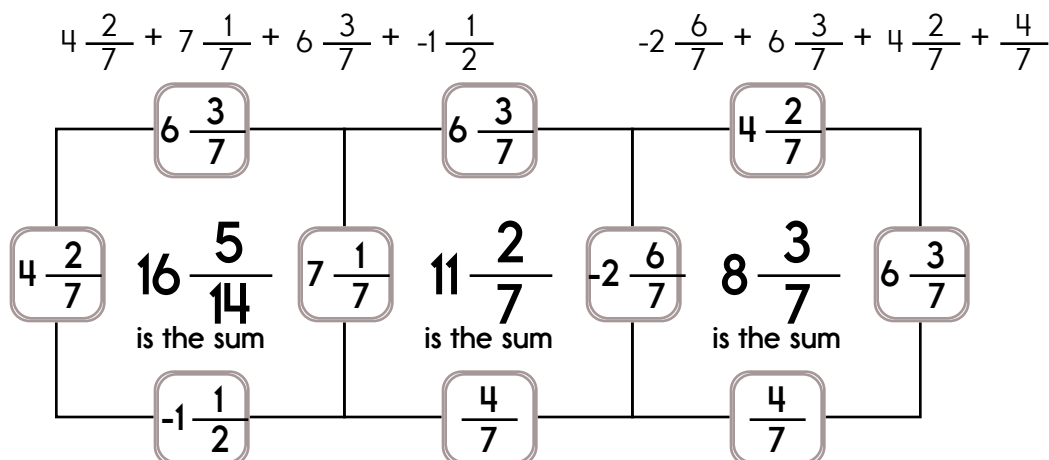
$4\frac{2}{7} + 7\frac{1}{7} + 6\frac{3}{7} + -1\frac{1}{2}$ $-2\frac{6}{7} + 6\frac{3}{7} + 4\frac{2}{7} + \frac{4}{7}$

Sample:

$6\frac{3}{7}$ $6\frac{3}{7}$ $4\frac{2}{7}$

$4\frac{2}{7}$ $16\frac{5}{14}$ $7\frac{1}{7}$ $11\frac{2}{7}$ $-2\frac{6}{7}$ $8\frac{3}{7}$ $6\frac{3}{7}$

is the sum   is the sum   is the sum

$-1\frac{1}{2}$ $\frac{4}{7}$ $\frac{4}{7}$

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: $-2\frac{6}{7}$, $-1\frac{1}{2}$, or $-3\frac{7}{8}$.

The other three numbers have to all be DIFFERENT and must be from these: $6\frac{3}{7}$, $4\frac{2}{7}$, $7\frac{1}{7}$, or $\frac{4}{7}$.

$-2\frac{6}{7}$ ☐   ☐ $-1\frac{1}{2}$

$4\frac{2}{7}$ $8\frac{3}{7}$ $\frac{4}{7}$ $10\frac{1}{2}$ ☐ 15 ☐ ☐ ☐

$6\frac{3}{7}$ ☐ $4\frac{2}{7}$ ☐

☐ 15 ☐ $9\frac{11}{14}$ ☐ $13\frac{55}{56}$ ☐ $9\frac{1}{7}$ ☐

☐   ☐   ☐   ☐

$4\frac{2}{7}$ 15 ☐ $12\frac{9}{14}$ ☐ ☐ $\frac{4}{7}$ ☐ ☐

☐ $-1\frac{1}{2}$ ☐   ☐

Name: _____

Fill in the missing numbers. How? The sum of the four surrounding numbers is in the center of each square.
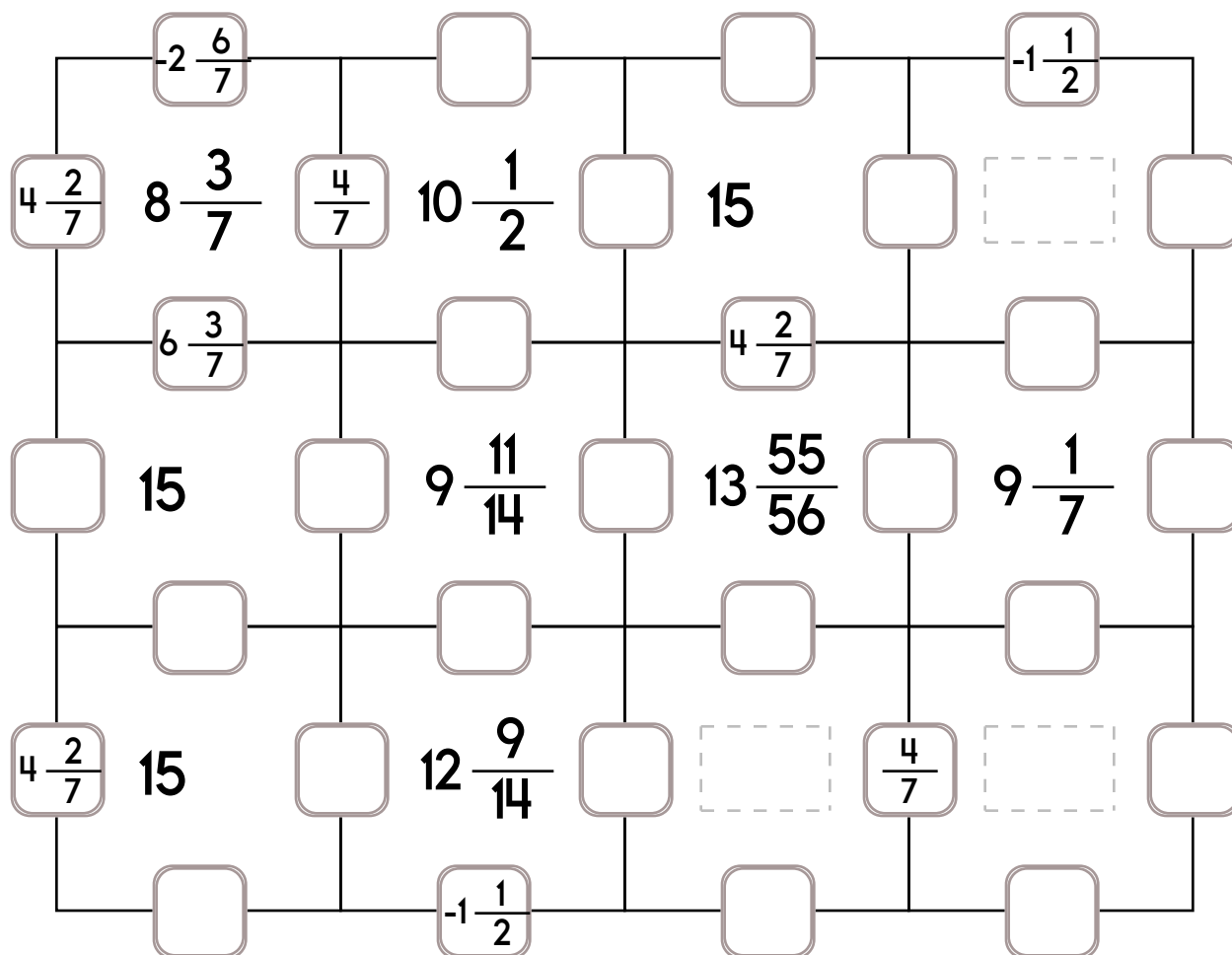
Exactly one of the four numbers has to be one of these numbers: $\frac{-1}{2}$, $-3\frac{3}{5}$, or $-2\frac{2}{3}$.

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

$6\frac{1}{2}$.

Name: _____

0.7 (0.4 (0.7 x 9)) =

(3 + 18) + 7 = 2(v + 7)

What is the value of v?

If m = 8 and c = -54 then what is 8m + 13c - 3c = ?

The angles in a quadrilateral measure 83°, 88°, 75°, and n°. What is the value of n?

What is the area of a rectangle with a length of 48 centimeters and a width that is $\frac{1}{4}$ the length?

Jessica told the class that they should drink about 1.84 liters of water per day. There are 20 kids in the class, including Jessica. They will all try to do that. How much water will the class drink in a day?

Simplify.

$\frac{138}{184}$ =

$\frac{6}{9}$ x $\frac{5}{9}$

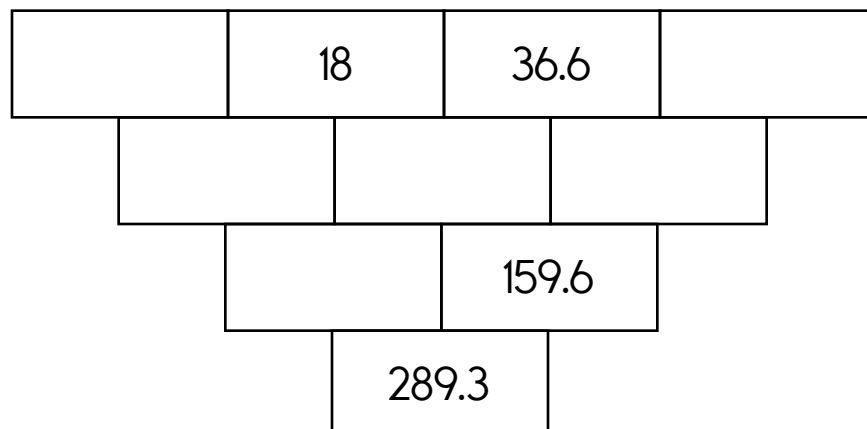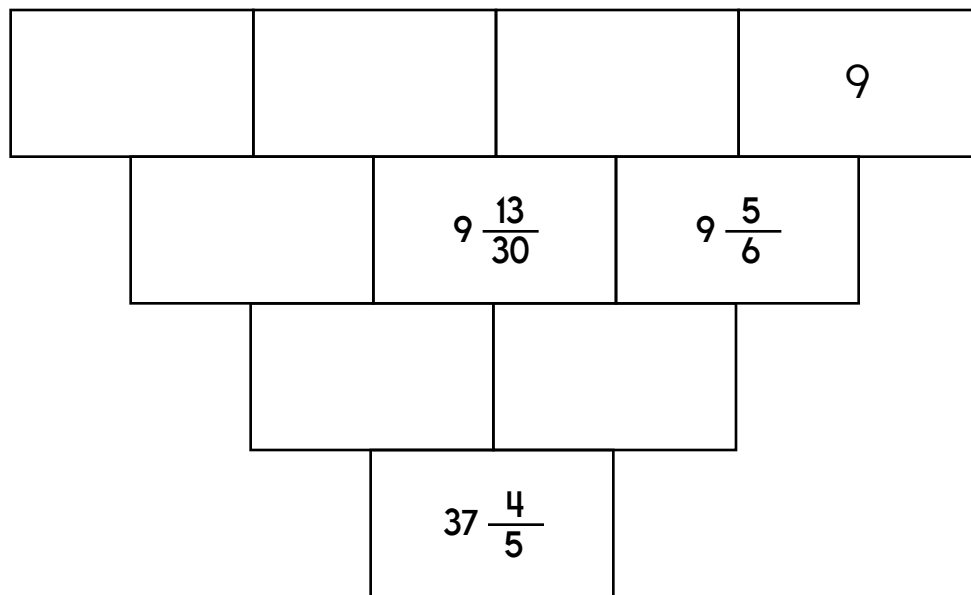
$\frac{38}{44}$ ÷ $\frac{8}{11}$ =

---

y = x + 15
y = 24
What is the value of x?

---

5 x 30 ÷ 3 - 90 ÷ 10 =

40, 48, 56, _____, 72, 80, 88

Name: _____

The block below is the sum of the two blocks above. Fill in the missing blocks.

| 9.7 | 2 | 18.8 | 4.2 | 15 |

| | 20.8 | | |

| 162.3 |

| | | | 9 |

| | $9\frac{13}{30}$ | $9\frac{5}{6}$ | |

| $37\frac{4}{5}$ |

| | 18 | 36.6 | |

| | 159.6 |

| 289.3 |

word root **heli** can mean **spiral**   **helix, helicopter**