Name: _____

Fill in the blanks by adding the two numbers below each hexagon.

Puzzle 1:
- 23
- 4
- 6 (with arrows from 4 and 2)
- 4, 2, 2, 7

Puzzle 2:
- 40
- 2, 3, 9, 2

Puzzle 3:
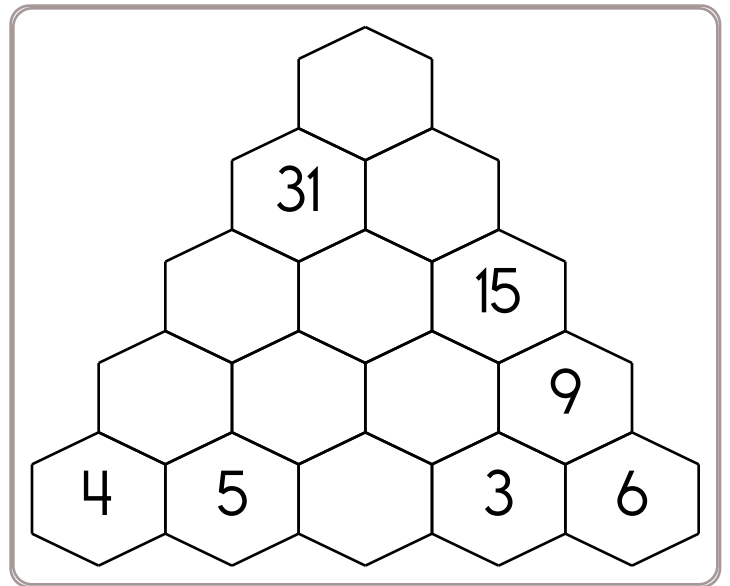- 83
- 47
- 3, 7, 7, 2, 2

Puzzle 4:
- 31
- 15
- 9
- 4, 5, 3, 6

Puzzle 5:
- 84
- 10
- 2, 8, 3, 6, 8

Puzzle 6:
- 66, 58
- 26
- 9, 9, 5
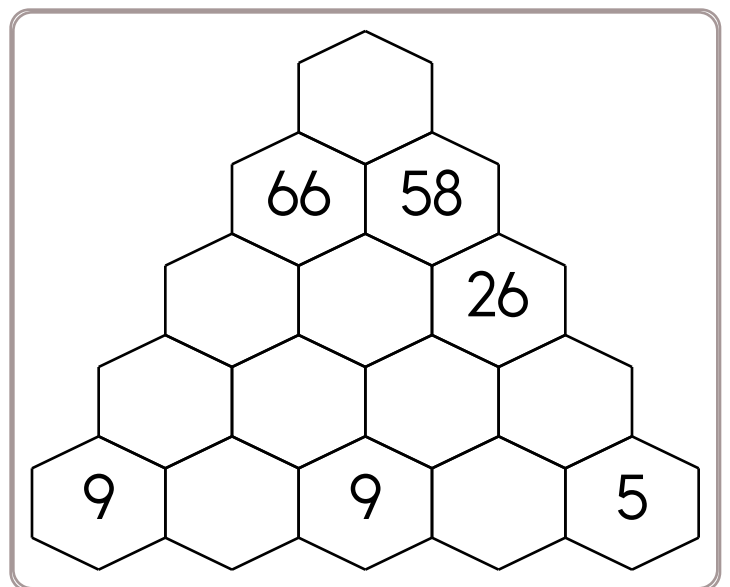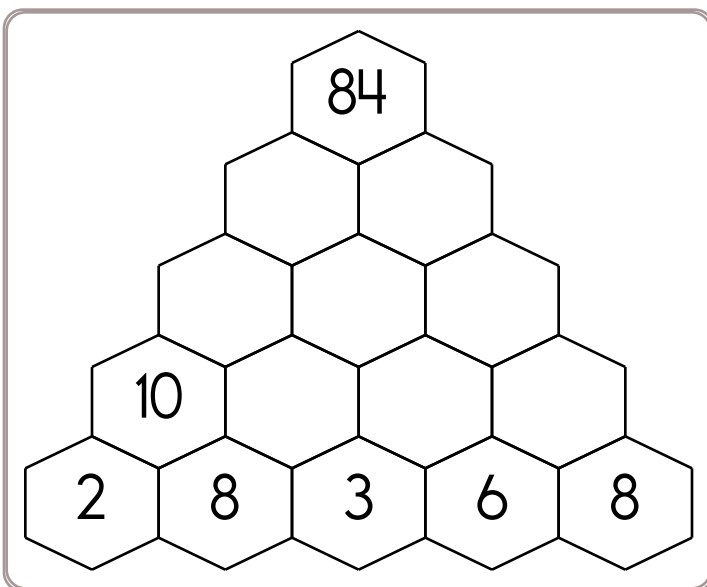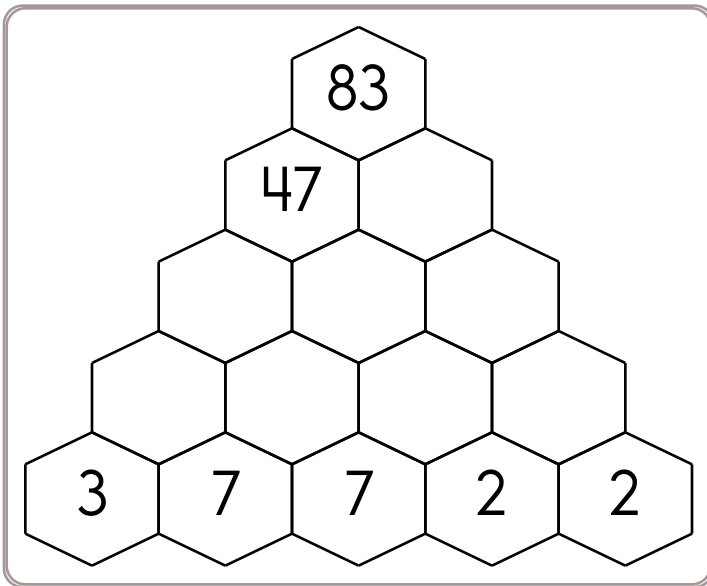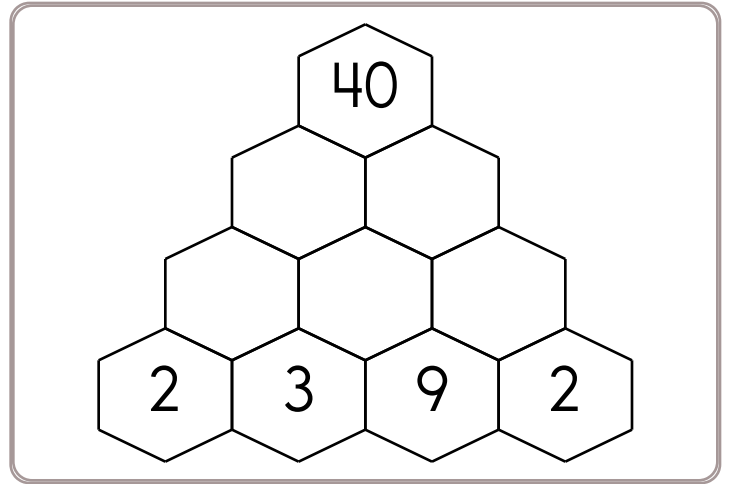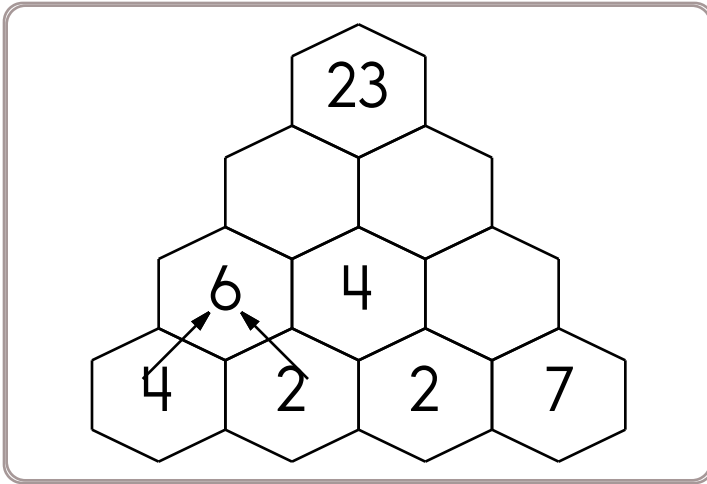
word root **culp** can mean **blame**   **culprit, culpable**

Name: _____

Complete each pattern. Write what the rule is.

61	56	51
46	41	
31		21

Complete each pattern. Write what the rule is.

14, 8, $14\frac{1}{3}$, $8\frac{1}{3}$, $14\frac{2}{3}$, $8\frac{2}{3}$,

_____ , _____ , $15\frac{1}{3}$, $9\frac{1}{3}$, $15\frac{2}{3}$

5, 12, _____ , _____ , $5\frac{2}{3}$,

$12\frac{2}{3}$, 6, 13, _____ , $13\frac{1}{3}$

Name: _____

Can you draw lines to cover every number or shape in the picture?
You can only move left, right, up, or down. And definitely no starting or stopping in a blank spot!
The first one is already done for you. Good luck.

Draw exactly 8 lines.
Start on 1.
Do not pick up your pencil.
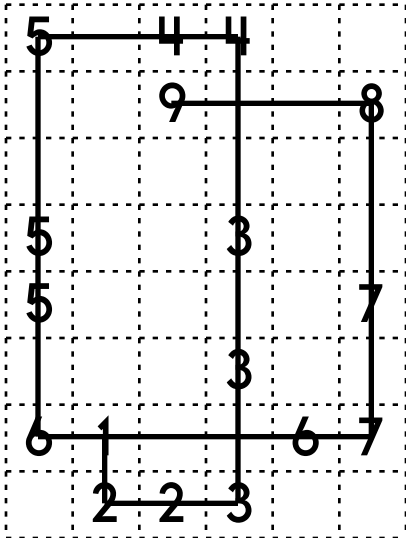
Draw exactly 9 lines.
Start on 1.
Do not pick up your pencil.
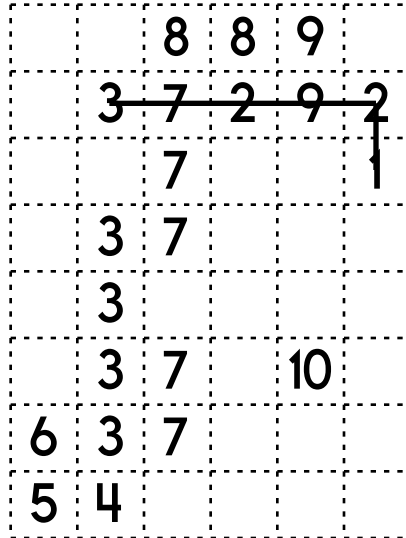
Draw exactly 8 lines.
Start on the square.
Do not pick up your pencil.
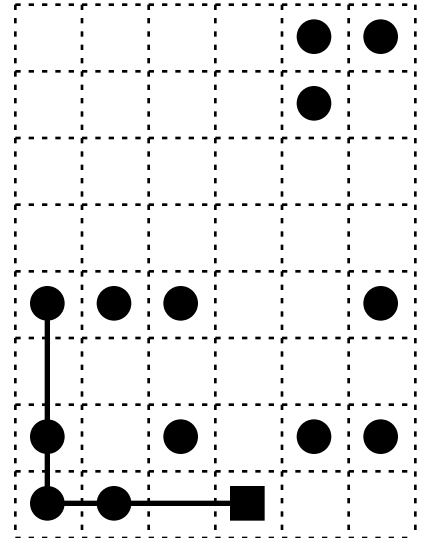
Draw exactly 7 lines.
Start on the square.
Do not pick up your pencil.
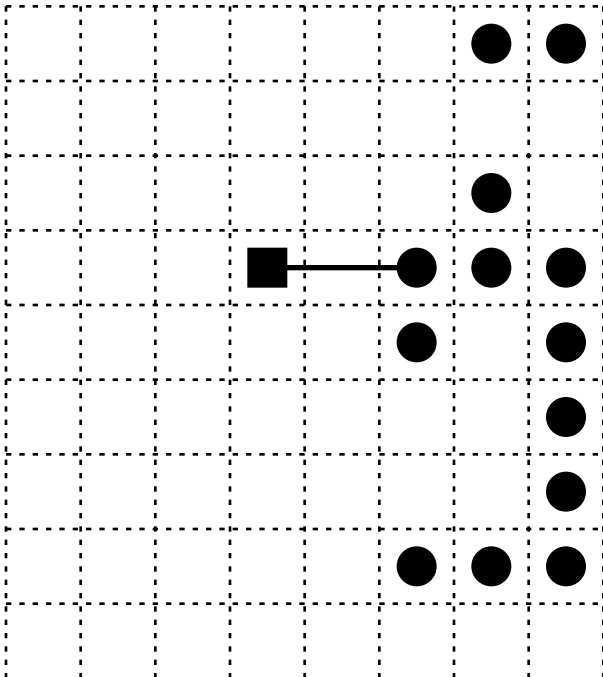
Draw exactly 9 lines.
Start on the square.
Do not pick up your pencil.
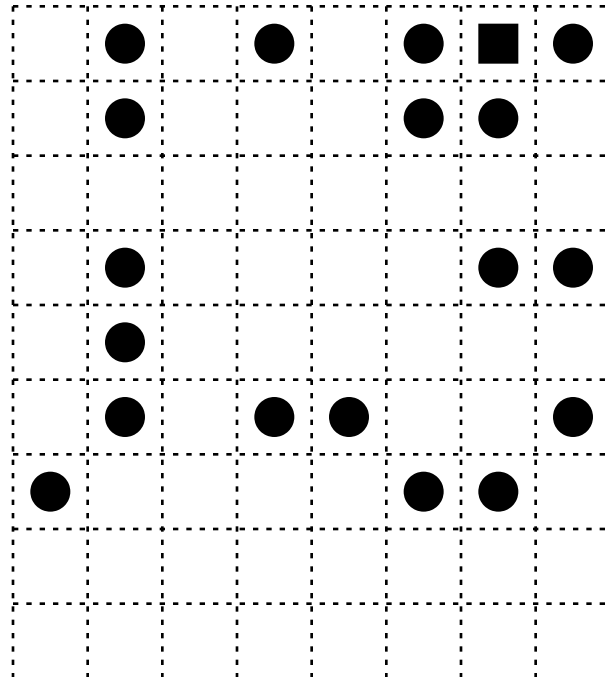
Name: _____

Cross off the number that does NOT belong.

$$55, 67, 79, 91, 99, 103, 115$$

Why does _____ not belong in the pattern?

Cross off the number that does NOT belong.

$$(16), (8), (4), (2),$$

$$(1), \frac{16}{32} , \frac{8}{32} , \frac{7}{32} ,$$

$$\frac{4}{32} , \frac{2}{32}$$

Why does _____ not belong in the pattern?

Name: _____

Fill in each box of the edHelperKu puzzle, using the numbers from 1 to 4.

Every row must contain the numbers 1, 2, 3, and 4.

Every column must contain the numbers 1, 2, 3, and 4.

In a cage with a plus sign, the given number will be the sum of all the digits in the cage.

In a cage with a subtraction sign, the given number will be the difference. The largest number will always be the box with the clue.

2-		7+	
1234	1234	3	1234
13+			**2-**
1234	1234	1234	4
	3		
1234		1234	1234
	3-		3
1234	4	1234	

Fill in the blanks. These equations are from the puzzle above.

4 - _____ = 3   4 - _____ = 2

3 + _____ + _____ + _____ = 7   _____ + _____ + 3 + _____ + _____ = 13

4 - _____ = 2

Name: _____

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

$$\frac{1}{2} + 3\frac{1}{2} + 5\frac{2}{7} + 8\frac{1}{2}$$　　　　$$\frac{1}{2} + 3\frac{1}{2} + 7\frac{1}{2} + 5\frac{2}{7}$$

Sample:

	$5\frac{2}{7}$		$2\frac{3}{4}$		$7\frac{1}{2}$	
$\frac{1}{2}$	$17\frac{11}{14}$ is the sum	$3\frac{1}{2}$	$15\frac{1}{4}$ is the sum	$\frac{1}{2}$	$16\frac{11}{14}$ is the sum	$3\frac{1}{2}$
	$8\frac{1}{2}$		$8\frac{1}{2}$		$5\frac{2}{7}$	

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: $2\frac{3}{4}$, $5\frac{2}{7}$, or $4\frac{1}{4}$.
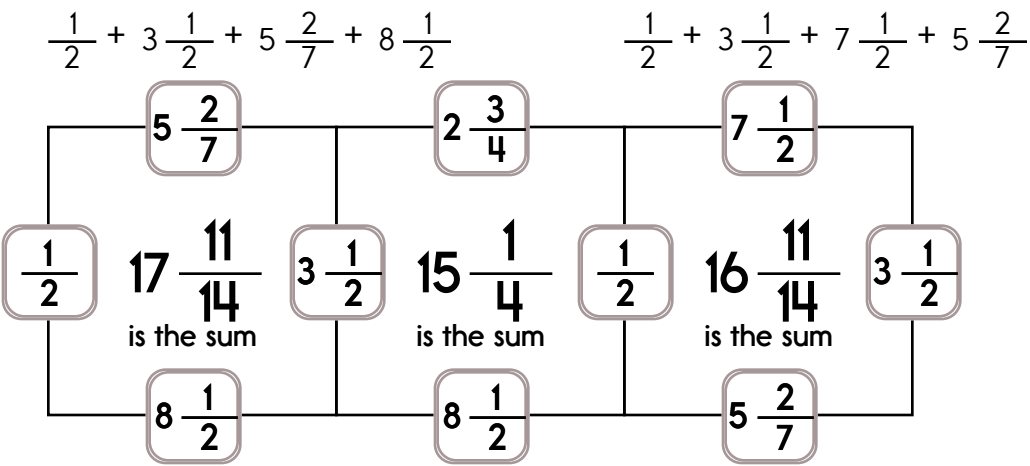
The other three numbers have to all be DIFFERENT and must be from these: $\frac{1}{2}$, $7\frac{1}{2}$, $3\frac{1}{2}$, or

$8\frac{1}{2}$.

	$\frac{1}{2}$		$7\frac{1}{2}$		$2\frac{3}{4}$		$7\frac{1}{2}$	
$3\frac{1}{2}$	$17\frac{11}{14}$	$5\frac{2}{7}$	$16\frac{11}{14}$	$\frac{1}{2}$	$15\frac{1}{4}$	$3\frac{1}{2}$		$2\frac{3}{4}$
	$8\frac{1}{2}$		$3\frac{1}{2}$		$8\frac{1}{2}$		$\frac{1}{2}$	
$\frac{1}{2}$	$20\frac{3}{4}$	$4\frac{1}{4}$	$15\frac{3}{4}$	$\frac{1}{2}$	$19\frac{1}{4}$	$2\frac{3}{4}$	$14\frac{1}{4}$	$3\frac{1}{2}$
	$7\frac{1}{2}$		$7\frac{1}{2}$		$7\frac{1}{2}$		$7\frac{1}{2}$	
$8\frac{1}{2}$	$22\frac{1}{4}$	$3\frac{1}{2}$	$23\frac{3}{4}$	$8\frac{1}{2}$		$2\frac{3}{4}$		$\frac{1}{2}$
	$2\frac{3}{4}$		$4\frac{1}{4}$		$\frac{1}{2}$		$3\frac{1}{2}$	
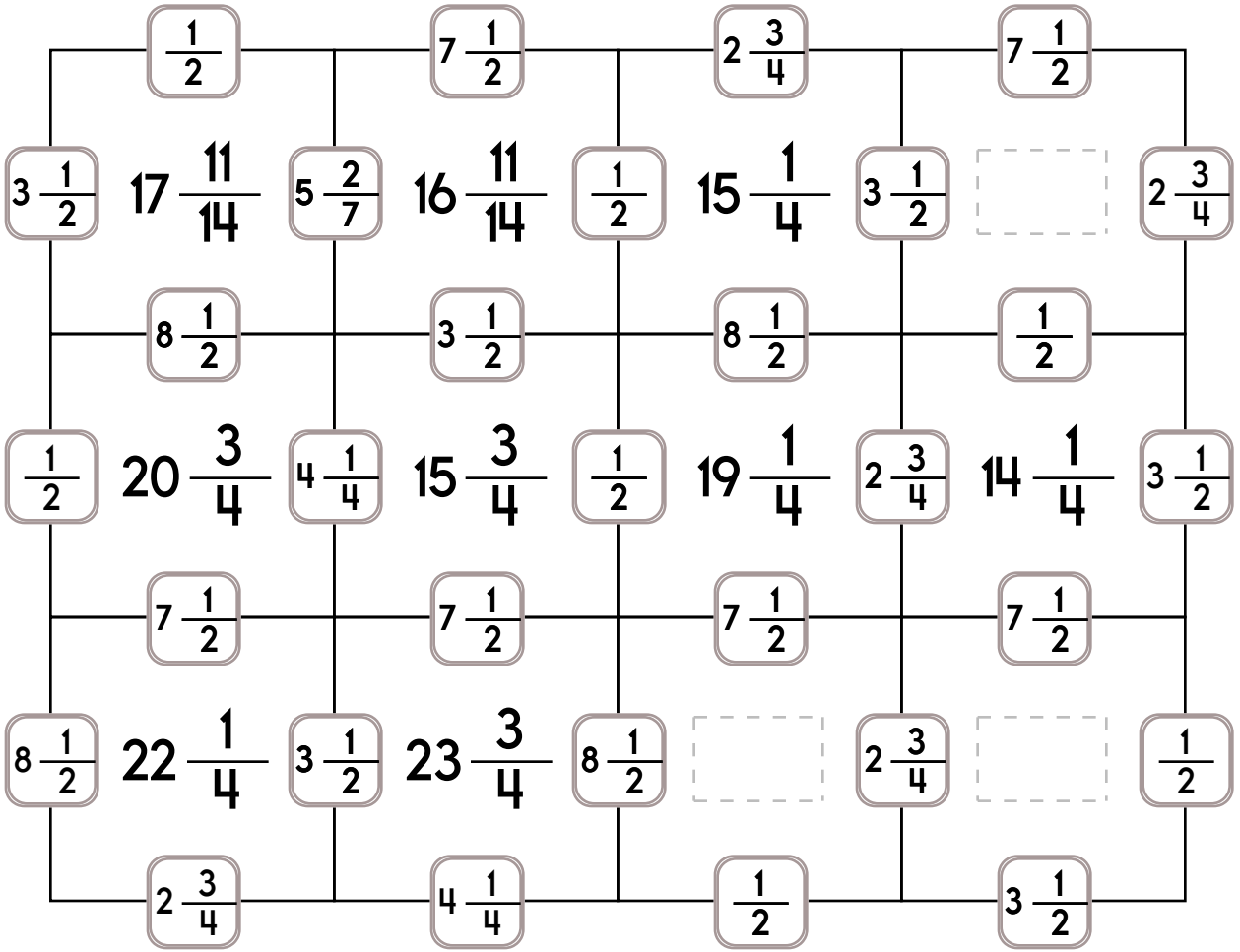
Name: _____

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: $9\frac{3}{5}$, $1\frac{1}{7}$, or $7\frac{2}{3}$.

The other three numbers have to all be DIFFERENT and must be from these: $1\frac{2}{5}$, $8\frac{4}{5}$, $9\frac{1}{5}$, or $3\frac{4}{5}$.

	$8\frac{4}{5}$		$3\frac{4}{5}$		$9\frac{1}{5}$		$1\frac{1}{7}$	
$1\frac{2}{5}$	$27\frac{1}{15}$	$7\frac{2}{3}$	$21\frac{2}{3}$	$1\frac{2}{5}$	$15\frac{19}{35}$	$3\frac{4}{5}$	$15\frac{1}{7}$	$1\frac{2}{5}$
	$9\frac{1}{5}$		$8\frac{4}{5}$		$1\frac{1}{7}$		$8\frac{4}{5}$	
$1\frac{2}{5}$	24	$9\frac{3}{5}$	29	$9\frac{1}{5}$	$15\frac{19}{35}$	$1\frac{2}{5}$	$20\frac{19}{35}$	$9\frac{1}{5}$
	$3\frac{4}{5}$		$1\frac{2}{5}$		$3\frac{4}{5}$		$1\frac{1}{7}$	
$8\frac{4}{5}$	$22\frac{33}{35}$	$1\frac{1}{7}$	$\square$	$9\frac{1}{5}$	$29\frac{7}{15}$	$8\frac{4}{5}$	$20\frac{19}{35}$	$9\frac{1}{5}$
	$9\frac{1}{5}$		$8\frac{4}{5}$		$7\frac{2}{3}$		$1\frac{2}{5}$	
$9\frac{3}{5}$	24	$3\frac{4}{5}$	$22\frac{33}{35}$	$9\frac{1}{5}$	$29\frac{7}{15}$	$8\frac{4}{5}$	$23\frac{3}{5}$	$9\frac{3}{5}$
	$1\frac{2}{5}$		$1\frac{1}{7}$		$3\frac{4}{5}$		$3\frac{4}{5}$	
$9\frac{3}{5}$	24	$9\frac{1}{5}$	$20\frac{19}{35}$	$1\frac{2}{5}$	$\square$	$9\frac{1}{5}$	$\square$	$1\frac{1}{7}$
	$3\frac{4}{5}$		$8\frac{4}{5}$		$7\frac{2}{3}$		$8\frac{4}{5}$	

Math Puzzles

Name: _____

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

35 x 4 = ●	● 48 x 2 =	24 x 6 = ●	● 17 x 6 =
45 x 4 = ●	● 32 x 5 =	34 x 3 = ●	● 45 x 5 =
40 x 4 = ●	● 24 x 3 =	33 x 3 = ●	● 21 x 2 =
12 x 8 = ●	● 15 x 6 =	14 x 3 = ●	● 16 x 9 =
18 x 5 = ●	● 28 x 5 =	40 x 6 = ●	● 11 x 9 =
18 x 4 = ●	● 30 x 6 =	25 x 9 = ●	● 48 x 5 =

$$6\frac{1}{2}$$
$$-\ \ \frac{3}{7}$$
$$\overline{\hspace{3cm}}$$

Find the least common denominator.

$\frac{2}{7}$ and $\frac{1}{5}$

$3\ -\ \frac{1}{4}$

How much money is 1 quarter, 1 dime, 1 nickel, and 6 pennies?

A rectangle is 23 cm on one side and 12 cm on another side. What is the perimeter?

Estimate quickly the difference.
5,440 - 1,500

The diameter of a circle is 1,188 cm. What is the radius of this circle?

The perimeter of a rectangle is 22 cm. The longer side is 7 cm. How long is the shorter side?

$27 + n = 45$

What is the value of n?

Math Puzzles

Name: _____

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

Left grid

sum of 4 →	2	2	sum of 5 →			▨
sum of 10 →	2			▨	sum of 10 ↓	▨
sum of 7 →		4	sum of 10 →			
▨	▨	sum of 8 ↓	sum of 5 →			
sum of 4 →		1		▨	sum of 5 ↓	sum of 10 ↓
▨	sum of 6 →		2		▨	
sum of 12 →	4			sum of 10 →		
▨	▨	▨	▨	sum of 4 →		

Right grid

sum of 4 ↓	sum of 3 ↓	sum of 10 ↓	▨	sum of 10 →	2		4
			sum of 4 →	1		▨
		▨	sum of 4 →			
		sum of 13 →			▨
▨	▨	▨	sum of 7 ↓	▨	sum of 7 →	
sum of 9 →	1		▨	▨	▨	sum of 7 ↓
▨	sum of 2 →		sum of 8 →			4
▨	▨	sum of 7 →		2	▨	3

What can you multiply by 8 to get 7?

Circle the addition property for 33 + 158 = 158 + 33.

    commutative property

    associative property

$$\begin{array}{r} 2\,9 \\ -\ 1\,3 \\ \hline \end{array}$$

In the number 936,707, the digit 0 is in what place?

13 km = _____ m

$$\begin{array}{r} 4\,0 \\ +\ 3\,6 \\ \hline \end{array}$$

Write an equation to represent this:

The difference between seventeen and five is twelve.

_____

$$\begin{array}{r} 4\,4\,6 \\ +\ 3\,2\,4 \\ \hline \end{array}$$

Name: _____

4 • 3 • 2 • 7 • 7 • 1 • 6 • 4 • 6 • 5 • 6 • 5 • 7 • 4 • 7 • 0
2 • 8 • 9 • 7 • 6 • 3 • 8 • 0 • 5

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

		+		+		=		
÷								
		-		=		-		
=								
				÷				
	÷					+		
	X		=					
=					=			

---
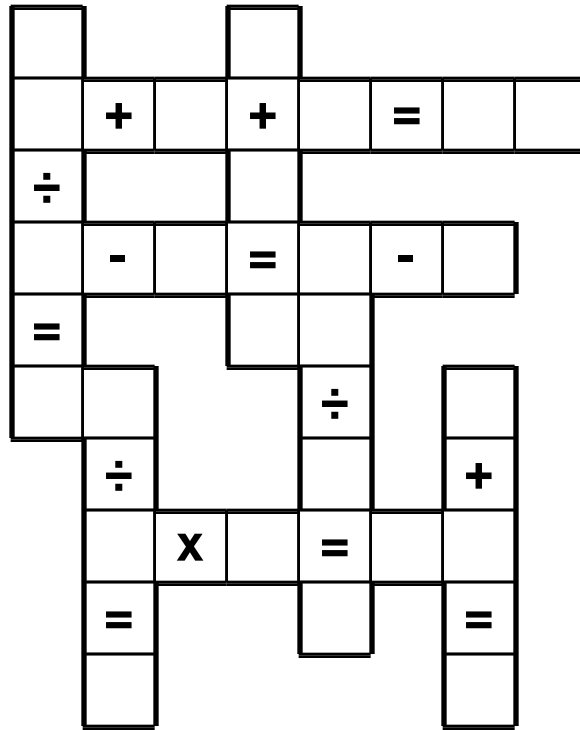
2 + 6 - 8

It was 71 degrees outside. What would the temperature be if it got 12 degrees colder?

Round 67,433 to the nearest hundred.

Circle the three numbers whose product equals 432.

12   6   7

9   9   4

B, _____, L, Q, V

It was 7 degrees above zero in the morning. By afternoon the temperature rose 19 degrees. How warm was it?

Math Puzzles

Name: _____

Find the way from START to END by passing through EVERY number that is a multiple of fifteen exactly ONCE. Cross off each box that is NOT a multiple of fifteen. Yes, that means you have to go through ALL the multiple of fifteen boxes. Wow!

You are not allowed to go diagonally. Good luck!

START	615	780	331	590	315	240
113	537	660	345	30	105	675
985	768	750	735	390	360	480
410	776	900	645	540	60	285
989	966	180	960	660	255	120
260	25	465	495	855	450	705
863	975	330	270	210	443	396
765	15	870	435	900	506	635
555	390	795	5	915	525	16
930	585	158	434	728	450	END

Math Puzzles