Name: _____

Complete each pattern.

K, g, K, g, K, g, K, ___, ___, g, K, g

6, w, 5, 3, 6, w, 5, 3, 6, w, 5, ___, 6, w, 5, 3

___, ___, C, d, 3, C, d, 3, C, d, 3, C, d

Complete each pattern. Write what the rule is. HINT: The first three numbers in each pattern are random numbers.

3.3, 20.2, 5.8, 29.3, 55.3, 90.4, 175,

320.7, 586.1, 1081.8, 1988.6, _____, _____

4.9, 16.8, 2.5, 24.2, 43.5, 70.2, 137.9,

251.6, 459.7, 849.2, 1560.5, _____, _____

Name: _____

Which of the following fractions when added to $\frac{5}{6}$ is $1\frac{1}{12}$?

$\frac{3}{8}$

$\frac{6}{7}$

$\frac{5}{9}$

$\frac{4}{5}$

$\frac{1}{4}$

For field day, Mrs. Harris is preparing punch. She wants to make 9 gallons of punch. The recipe she found is only for 3 quarts. The recipe calls for $1\frac{1}{2}$ cups of pineapple juice, $\frac{1}{4}$ cup of orange juice, and the rest lemon-lime soda. In order to make 9 gallons of punch, how much of each ingredient will Mrs. Harris need?

Name: _____

Ready to make equations? There is a missing equation in each box.
Circle the numbers once you find it!

A **-**

41	5	67
39	69	10
46	90	50
33	52	22

Find a subtraction fact.

B **+**

42	19	30
65	32	53
43	90	38
63	44	78

Find an addition fact.

C **+**

47	51	63
52	53	81
25	66	9
80	8	2

Find an addition fact.

Equations:
Write the equation facts you found.

A		-	41	=	
B		+		=	
C		+		=	

Fill in the missing letters. Write ai or oi.

app_____nt str_____ght expl_____ned

appr_____sal an_____nt c_____ncidence

Read the topic. Try to make it better. The first one is done for you.

Topic: climbing

1. rock climbing in Colorado

2. _____

word root **cred** can mean **believe** **credible, credulous, incredulous**

Name: _____

If three out of every seven individuals in a population of armadillos carry a gene for a defective enzyme, how many individuals carry the normal gene in a population of 828 armadillos?

Sarah measured the length of her iguana last month and found it was 29.7 centimeters long. She measured it again today and found that some of its tail was missing and now it was only 28.62 centimeters long. By how much was the iguana shorter?

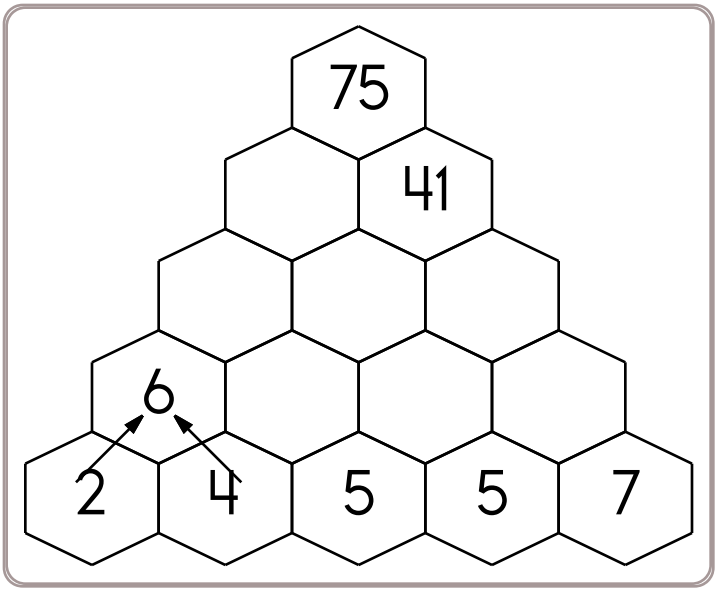
The (make-believe) country of Slowmonia is always super slow. But they are hard working, and after 25 years of research, the country of Slowmonia launched a rocket into space to land on Pluto. It is slow! It travels 2.317 kilometers in a month. How far will it travel in 11 years?

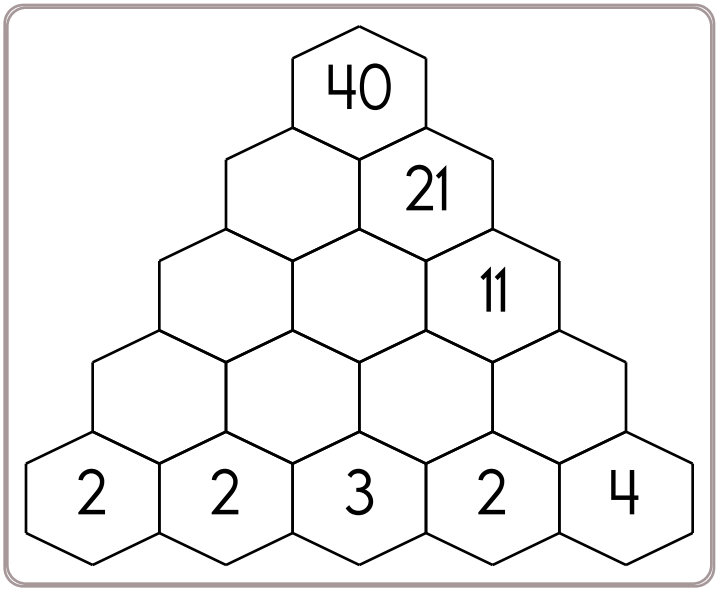
"Hey, Ted!" called out his friends. But Ted didn't reply. He was texting. They don't call him Texty Ted for nothing! Ted sends an average of 40 texts in only 3 minutes. At precisely 3:20 Ted finally sat down outside of school to play his phone. He played his phone until 3:47 when his phone ran out of power. How many texts do you think Texty Ted sent?

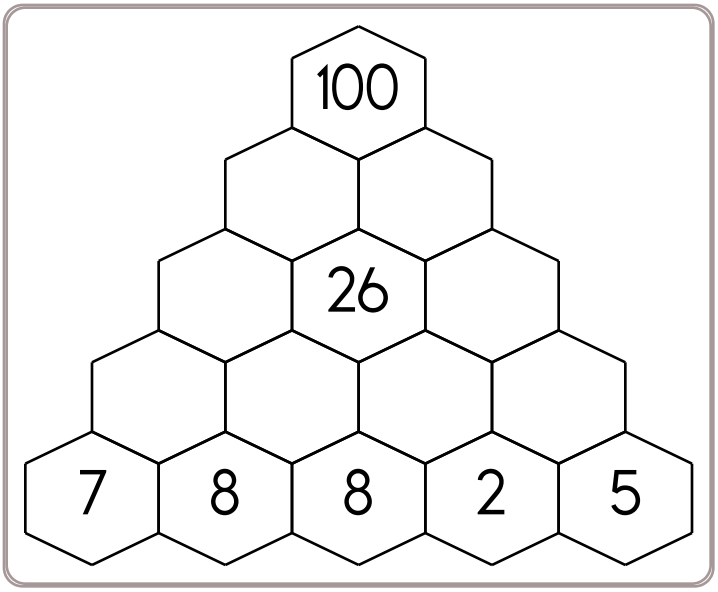
word root **di** can mean **day** **diary**

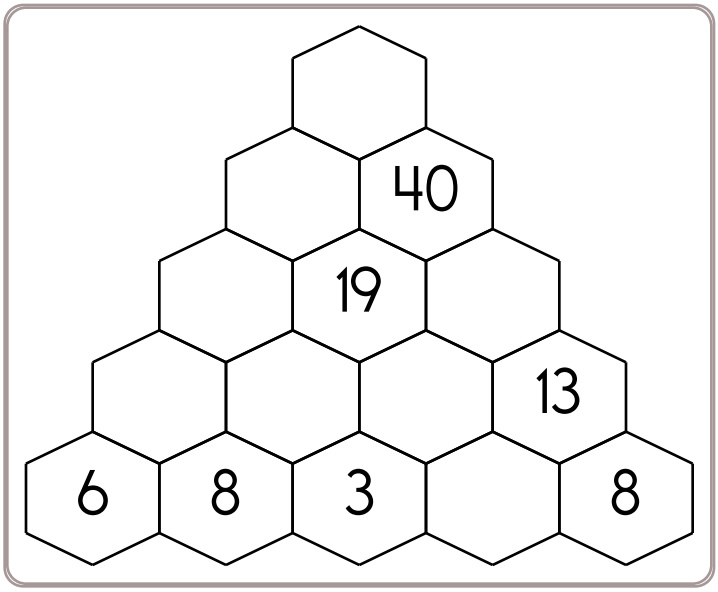
Name: _____

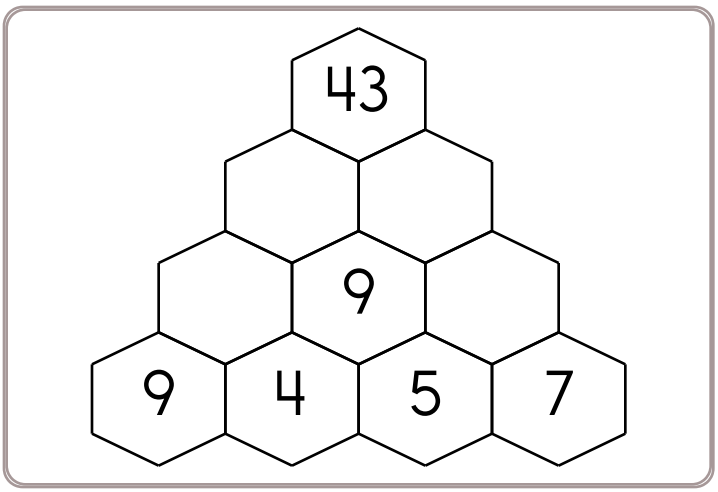
Fill in the blanks by adding the two numbers below each hexagon.

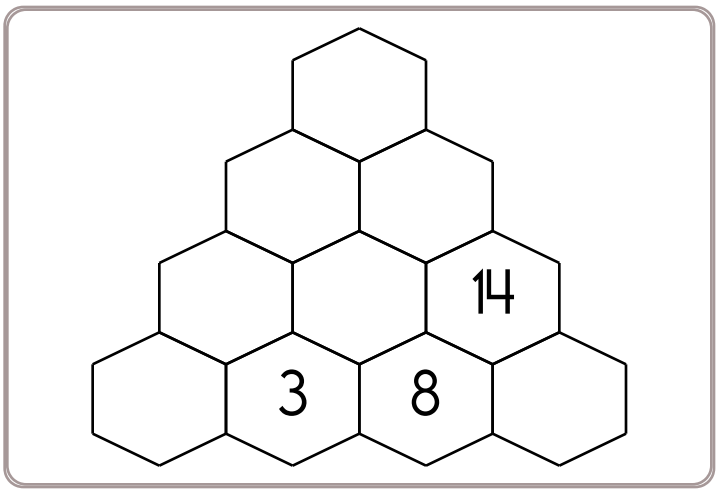












Name: _____

Jason washes his father's car every five days. Nathan washes his mother's car every four days. Both of them washed their cars on September 21. On what date will Jason and Nathan both wash cars again? Make an organized list to solve the problem.

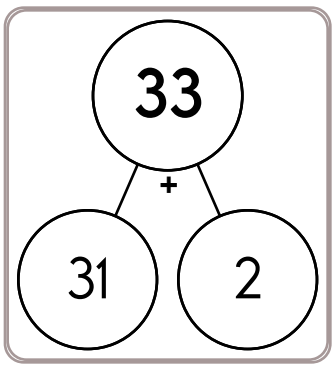
Amanda used masking tape to make a hopscotch outline on the floor of the playroom. She taped the full length and width of each of 8 squares. If she used 20 yards of masking tape, what were the measurements of each square?

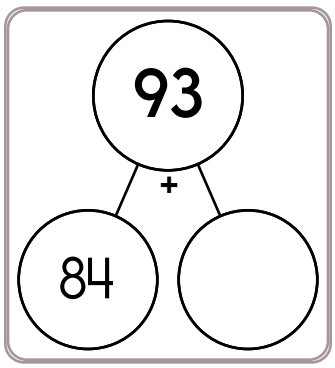
The food service workers at Mountain Springs Elementary School begin their work at 5:05 a.m. and finish their days at 11:05 a.m. They work five days a week. If they make $6.46 per hour, how much do they make in a week?

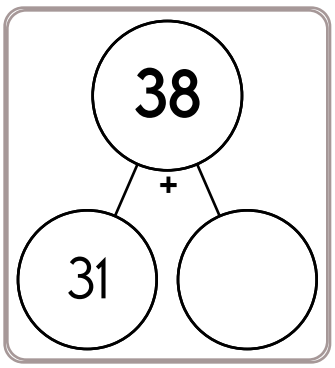
Name: _____

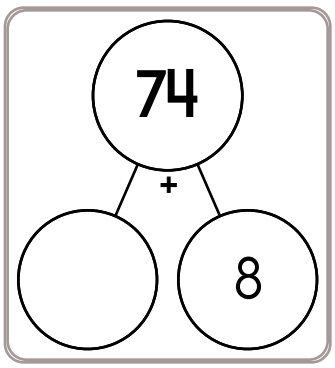
___ - 8 = 18	59 - ___ = 52	11 - ___ = 9
___ - 3 = 93	65 - ___ = 60	___ - 3 = 44
___ - 9 = 40	44 - ___ = 36	___ - 5 = 12
16 - ___ = 14	40 - ___ = 33	___ - 9 = 27

$2\overline{)90}$	$8\overline{)392}$	$43\overline{)172}$	$94\overline{)188}$
$2\overline{)98}$	$16\overline{)112}$	$4\overline{)268}$	$3\overline{)201}$
$6\overline{)126}$	$4\overline{)272}$	$13\overline{)65}$	$8\overline{)376}$

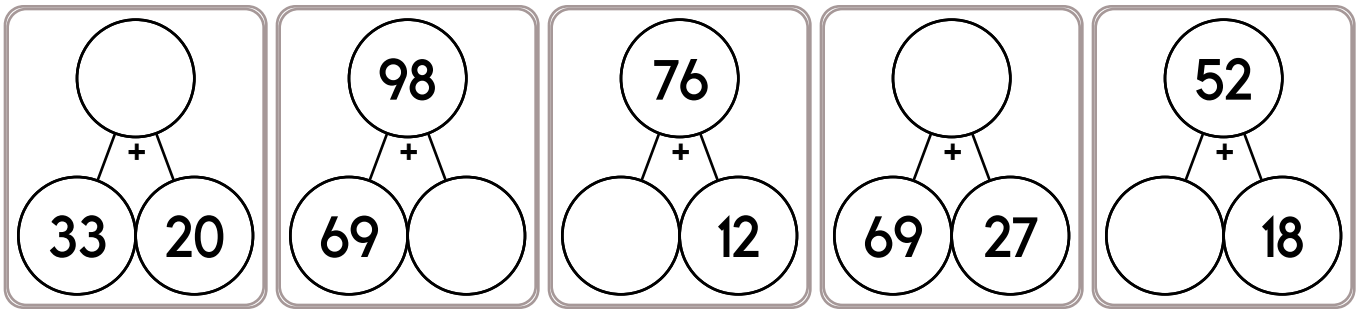


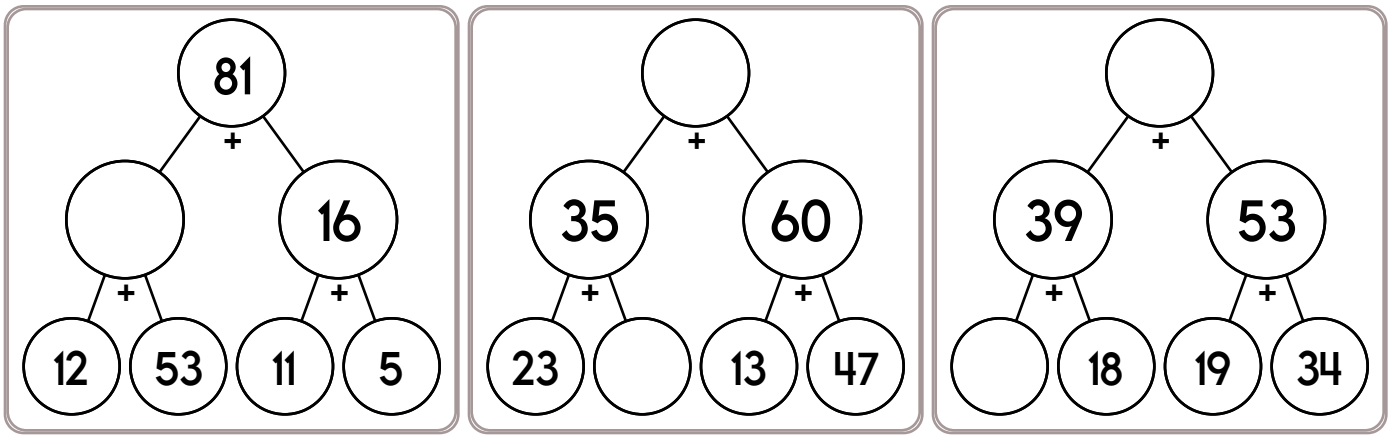


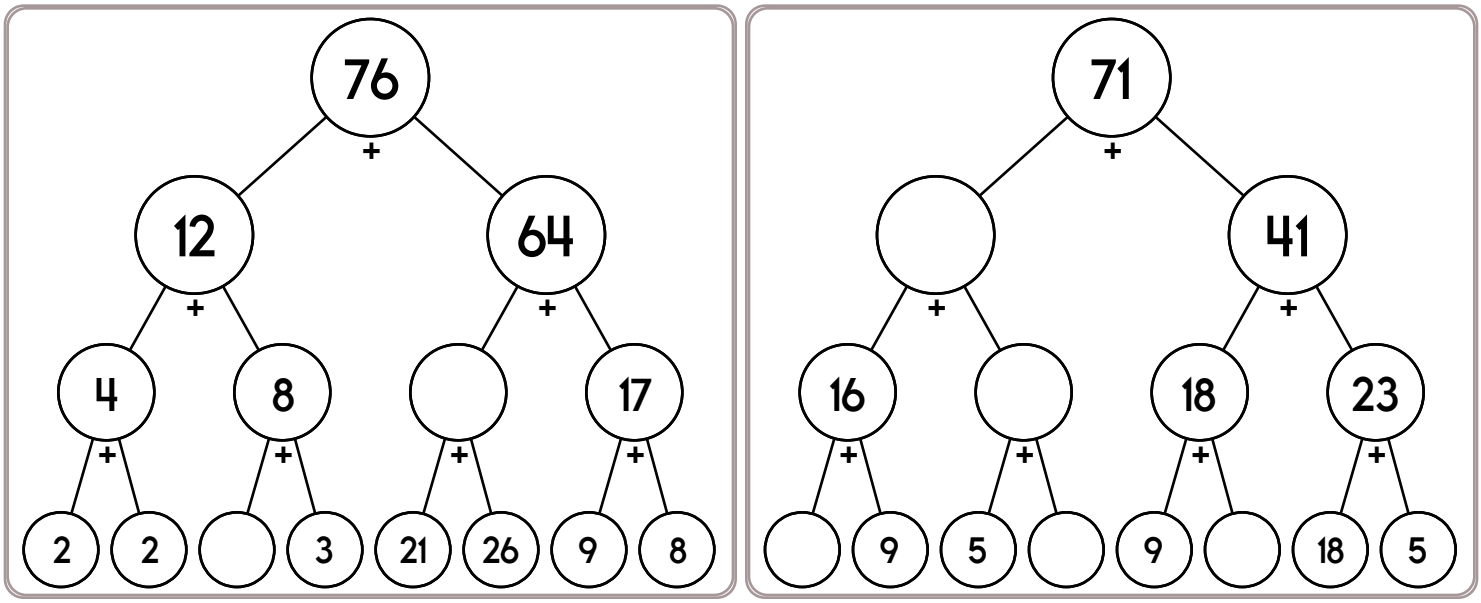




Name: _____







$$\begin{array}{r} 0.79 \\ -\,0.284 \\ \hline \end{array}$$

$$\begin{array}{r} 1.7 \\ +\,23.591 \\ \hline \end{array}$$

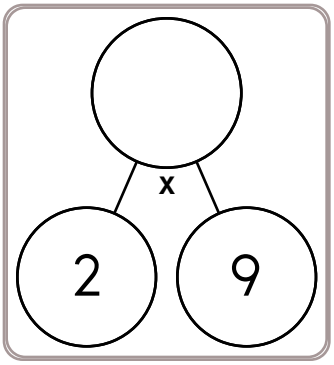
$$\begin{array}{r} 8.2 \\ 18.5 \\ +\,12.5 \\ \hline \end{array}$$

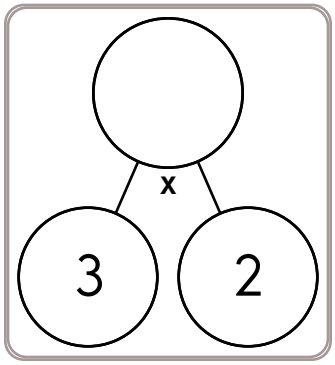
word root **heli** can mean **spiral** **helix, helicopter**

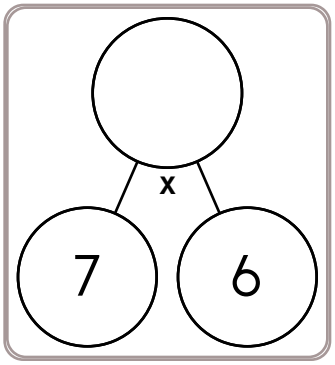
Name: _____

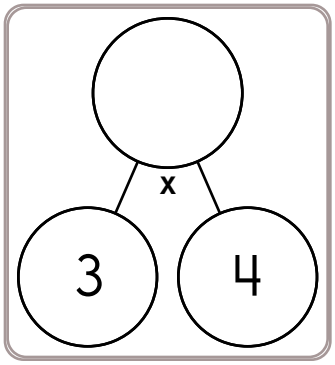
92 x ___ =552	39 x ___ = 351	___ x 9 =810
___ x 9 = 171	___ x 8 =544	36 x ___ =324
___ x 6 =294	71 x ___ = 142	74 x ___ = 148
___ x 8 =584	___ x 8 =704	88 x ___ = 176

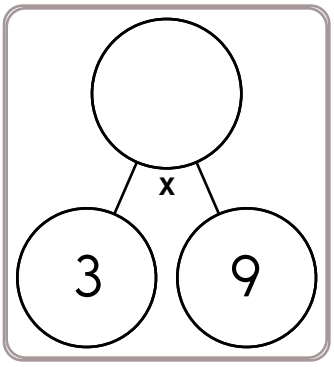
6 x 6 =	6 x 9 =	4 x 4 =
2 x 2 =	3 x 4 =	6 x 8 =
3 x 7 =	9 x 3 =	9 x 8 =
3 x 5 =	9 x 4 =	2 x 6 =

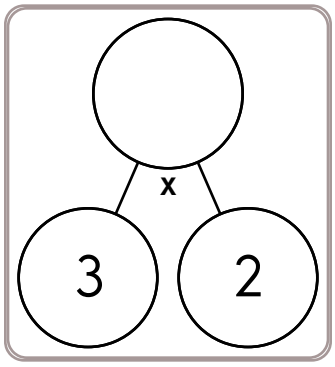


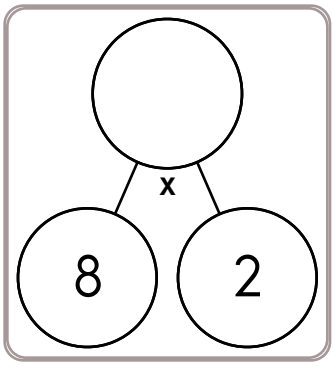


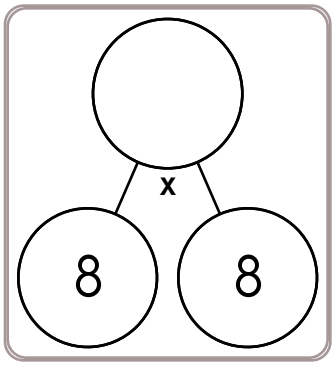




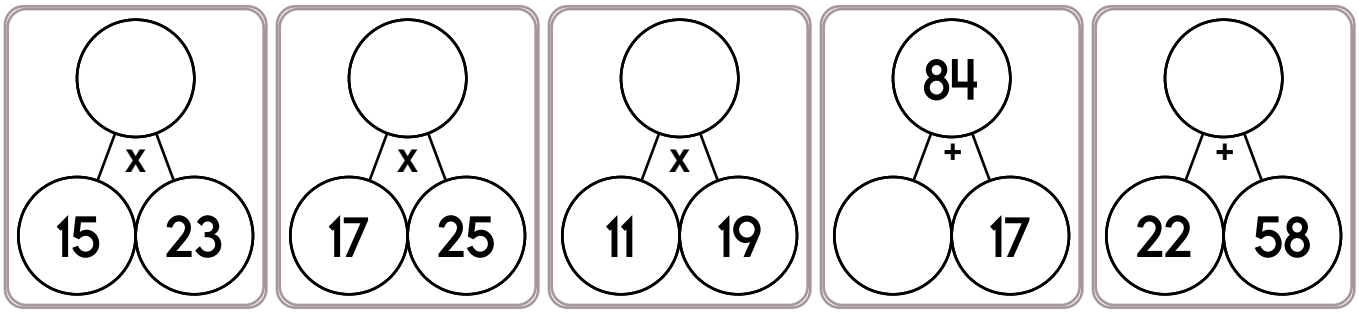








Name: _____



119, 106, 94, 83,

_____, 64, 56, 49, 43,

38, 34

(8 + 12) + 10 = 2(v + 11)

What is the value of v?

18 - t + 8 = 15
What is the value of t?

|-11| + p = 15

p =

Each side of a regular pentagon is 80.5 centimeters. What is the perimeter?

|-6| - f = 1

f =

Wendy told the class that they should drink about 1.85 liters of water per day. There are 22 kids in the class, including Wendy. They will all try to do that. How much water will the class drink in a day?

What is the area of a rectangle with a length of 42 centimeters and a width that is $\frac{1}{3}$ the length?

How many possible values of w can there be if w is a number between 33 and 50, w is an odd number, and w is evenly divisible by 3?

Name: _____

931 + 26 =

$$\begin{array}{r} 82{,}637 \\ -\ 1{,}146 \\ \hline \end{array}$$

$$\begin{array}{r} 9{,}605 \\ -\ 3{,}016 \\ \hline \end{array}$$

$$\begin{array}{r} 65{,}979 \\ \times\ \quad 1 \\ \hline \end{array}$$

$7\overline{)5110}$

Divide and write remainder.

$6\overline{)654}$

Divide and write remainder.

$$\begin{array}{r} 65{,}795 \\ -\ 36{,}157 \\ \hline \end{array}$$

$$\begin{array}{r} 470 \\ -\ 19 \\ \hline \end{array}$$

$$\begin{array}{r} 645 \\ +\ 16 \\ \hline \end{array}$$

$$\begin{array}{r} 39 \\ 92 \\ +\ 67 \\ \hline \end{array}$$

$$\begin{array}{r} 14 \\ \times\ 74 \\ \hline \end{array}$$

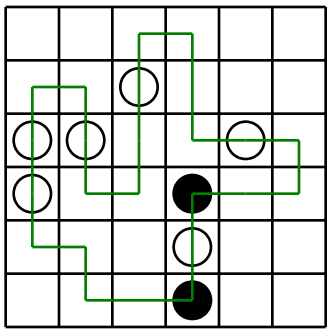
567 + 144 + 636 =

Name: _____

Amanda arranged 10 packages of Jell-O into a "T" shape 4 boxes high and 6 boxes wide. Each box measures 4 inches by $2\frac{1}{2}$ inches. What is the total surface area of the "T" shape?

Anna took a picture of her father's office building. He worked in a 50-story skyscraper. When she got the picture, she saw that she had only taken a picture of the highest 22 stories. Write a fraction for the part of the building that was in the picture.

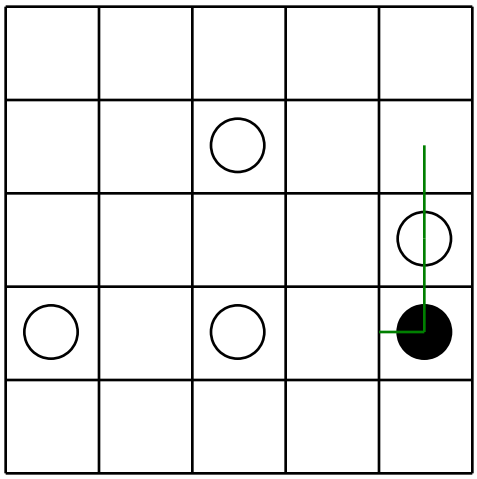
The world's largest pizza was made in South Africa. Its area was $11837\frac{3}{5}$ square feet. If the pizza were cut into $1\frac{3}{5}$ square foot pieces, how many pieces could be cut from the pizza?



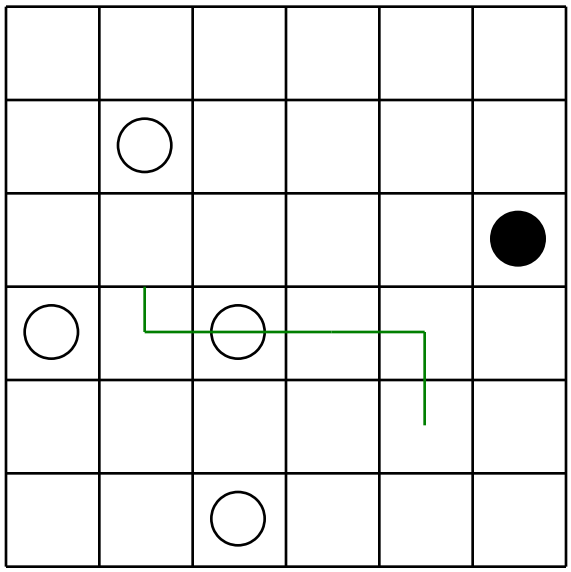
Can you draw ONE line going through ALL the circles? Your line can go left, right, up, or down. It cannot go diagonally. Your line cannot cross over any part of the line you have already drawn.
You MUST TURN in a BLACK circle. Do NOT TURN in a WHITE circle.

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

Finish the line:



Finish the line:



Name: _____

Sudoku Sums of 13

Each row, column, and box must have the numbers 1 through 9.
Hint: Look for sudoku sums. The sum of the two boxes inside of the dashed lines is 13.

Here is an example of a sudoku sum of 13: | 8 | 5 |

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

$$\begin{array}{r} 531 \\ -\ 514 \\ \hline \end{array}$$

Amy rolls a die. What is the chance of her rolling a 3?

_____

Two books cost $8. At that rate, what is the cost of 4 books?

12 x 4 = _____

108 ÷ 9 =

Name: _____

What Words? Your Words!

Fill in the boxes with letters to make words. Each box is worth points. Earn points by filling in as many boxes as you can. Sum up the points you earn for each word.

Make a Word	Sum
S A V A G E (1 2 4 6 12 18)	13
_ U _ _ _ _ _ _ (1 2 4 6 8 14 20)	
_ O _ _ _ _ _ _ (1 2 4 6 8 12 16)	
F O _ _ _ _ _ _ (1 2 4 6 10 14)	
M E _ _ _ _ _ _ (1 2 4 6 10 14)	

Make a Word	Sum
O P _ _ _ _ _ _ (1 2 4 6 12 18)	
_ _ I _ _ _ _ _ (1 2 4 6 8 12 18)	
_ _ E _ _ _ (1 2 4 6 10)	
A G _ _ _ _ _ _ (1 2 4 8 14 20)	
E R _ _ _ (1 2 4)	

Write an equation to represent this:

The sum of seven and nine is sixteen.

_____

How many ounces are in 7 pounds?

_____ ounces

Circle the smallest number:

1,970,326,854

5,103

286,479

594,086,321,730

448 - 272 = _____

12 x 10 = _____

$$\begin{array}{r} 30 \\ -\ 13 \\ \hline \end{array}$$

What time is 15 hours after 5:00 a.m.?

_____

What number is halfway between 14 and 33?

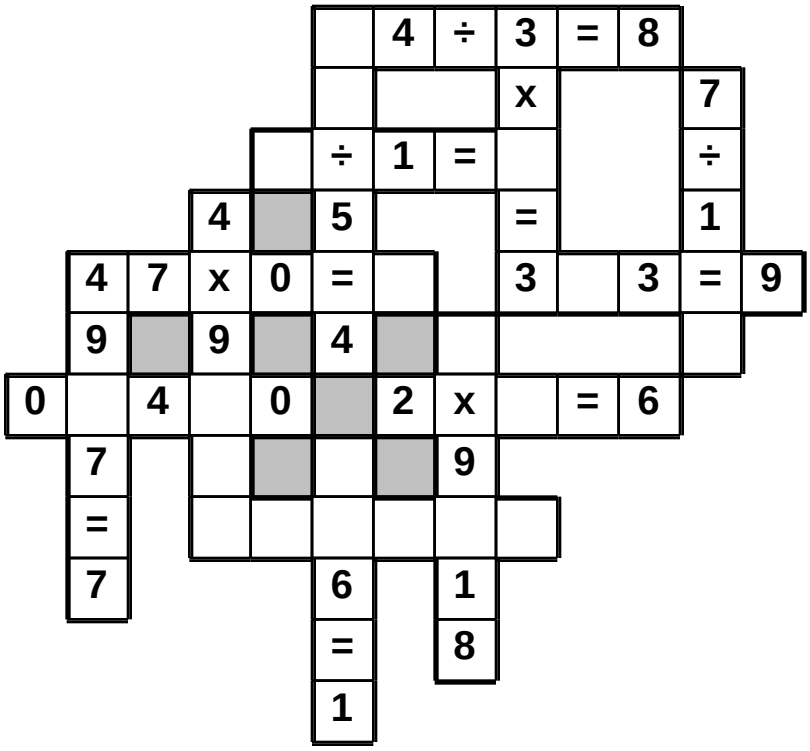
32 ÷ 4 = _____

word root **cand** can mean **white or shine** **candle, candid**

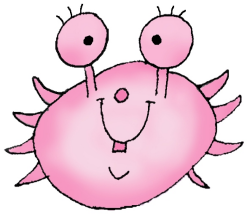
Name: _____

2 • 0 • 1 • 1 • 0 • x • 2 • 7 • ÷ • = • 3 • 3 • 6 • 6 • 3 • ÷ • 9 = • 7

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



9 x 11 =



Hunter took three numbers greater than 1 and multiplied them. One number was four and the other number was fifteen. Of course, he forgot the last number, but he remembered the product was 139. Is this possible?

$$\begin{array}{r} 214 \\ +\ 469 \\ \hline \end{array}$$

For 786,835,739, write the digit that is in the hundred thousands place.

_____

15 ÷ 5 = _____

17 lb = _____ oz

5 x 3 = _____

Name: _____

There are five objects (a violet object, a blue object, a black object, a navy object, and a yellow object). Each object has a different mass (18 g, 39 g, 7 g, 23 g, and 72 g) and a different volume (28 cubic cm, 24 cubic cm, 25 cubic cm, 21 cubic cm, and 14 cubic cm).
Density = Mass / Volume
Figure out the mass, volume, and density of each object.

1. One object has a volume of 14 cubic cm and a density of 0.5 grams per cubic cm.
2. The density of water is 1.0 grams per cubic cm. If the black object was placed in water, it would sink.
3. The black object has a greater mass than the violet object.
4. One object has a volume of 24 cubic cm and a density of 0.75 grams per cubic cm.
5. The density of water is 1.0 grams per cubic cm. If the blue object was placed in water, it would float.
6. The navy object has a volume of 28 cubic cm and a density of 1.393 grams per cubic cm.
7. The density of aluminum is 2.7 grams per cubic cm. The yellow object is more dense than aluminum.
8. The volume of the violet object is not 25 cubic cm and it is also not 24 cubic cm.
9. The yellow object has a mass of 72 g and a density of 2.88 grams per cubic cm.
10. The black object has a volume of 21 cubic cm and a mass of 23 g.

violet object has a mass of _____, a volume of _____, and a density of _____.

blue object has a mass of _____, a volume of _____, and a density of _____.

black object has a mass of _____, a volume of _____, and a density of _____.

navy object has a mass of _____, a volume of _____, and a density of _____.

yellow object has a mass of _____, a volume of _____, and a density of _____.

1 cm = 10 mm

25 cm = _____ mm

11 x 8 = _____

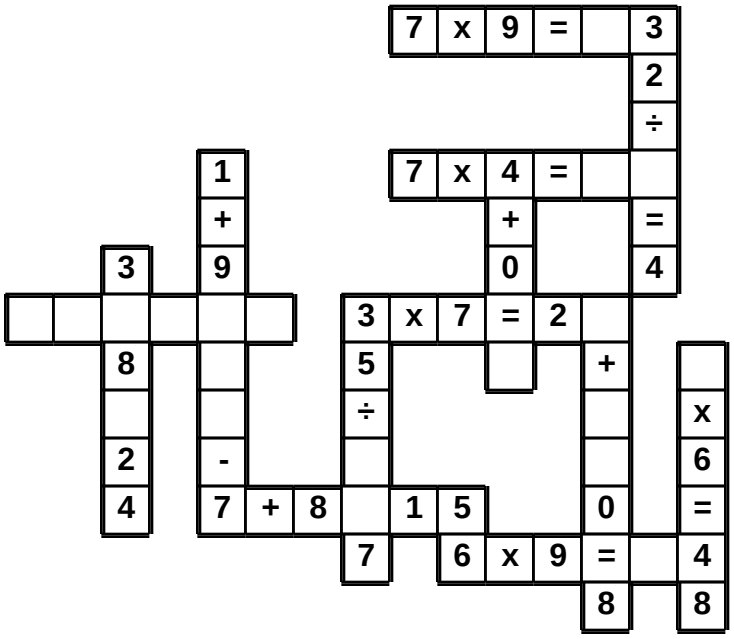
Circle the digit in the tenths place.

1,844.29

Name: _____

6 • 2 • 8 • 1 • 2 • x • 0 • = • 0 • 1 • 1 • 4 • 8 • = • 7 • 7 • 5
+ • = • 5

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



5.6043×10^2 =

Simplify.

$\frac{46}{69}$ =

0.5 (0.8 (0.5 + 2)) =

0.4 (0.9 (0.4 x 5)) =

If x = -5 and t = 26 then what is 8x + 12t - 2t = ?

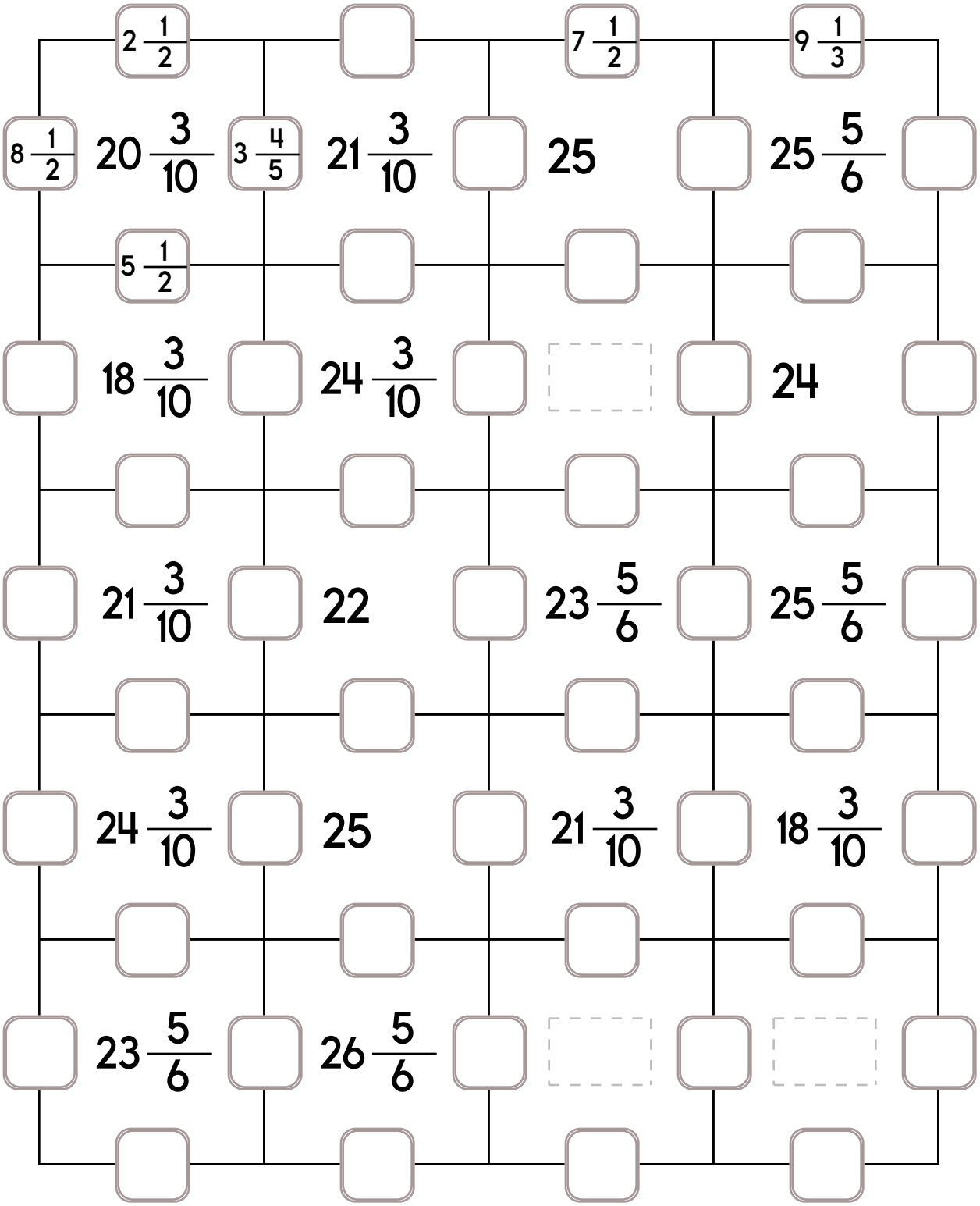
785 ÷ 10

Name: _____

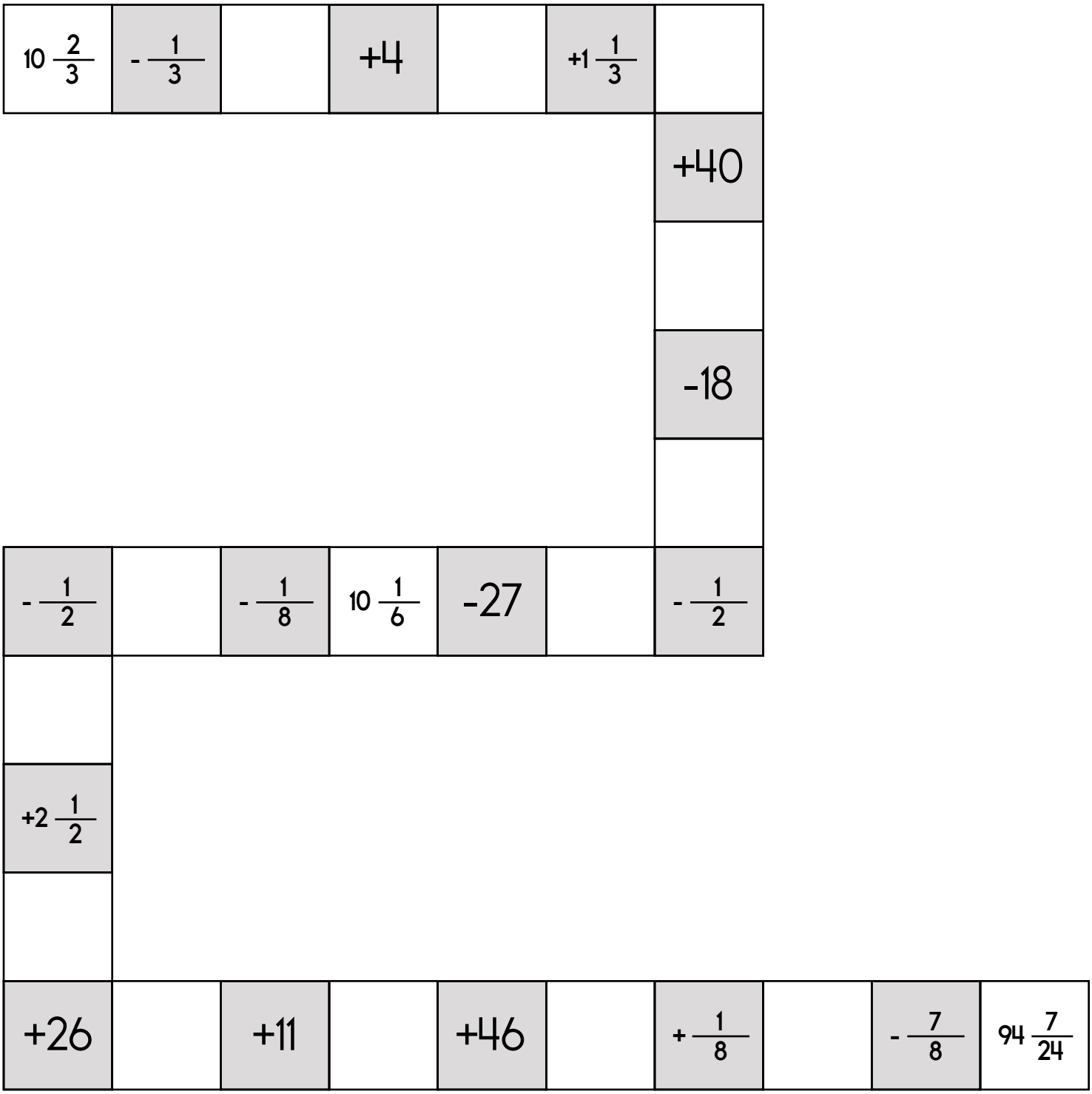
Fill in the missing numbers. How? The sum of the four surrounding numbers is in the center of each square.

Exactly one of the four numbers has to be one of these numbers: $7\frac{1}{2}$, $3\frac{4}{5}$, or $9\frac{1}{3}$.

The other three numbers have to all be DIFFERENT and must be from these: $2\frac{1}{2}$, $5\frac{1}{2}$, $6\frac{1}{2}$, or $8\frac{1}{2}$.



Name: _____



2 x 11 = _____

$$\begin{array}{r} 33 \\ +\ 24 \\ \hline \end{array}$$

4 x 3 = _____

80 ÷ 8 =

Name: _____

Sara is 5 feet, 2 inches tall.
Eric is 160.02 centimeters tall.
Who is taller?

Hint: 1 inch = 2.54 centimeters

Pam's Donuts are the best. They cost $0.40 per donut, or you can buy a dozen and get $1.40 off.
Only 5 blocks away, they have Maria's Donuts, and they are just as good.
The donuts cost $0.90 each at Maria's Donuts, or you can buy a dozen and get $2.10 off.
You need to buy 16 donuts for a party.
Which store would cost the least?

Hannah is doing some mental math. She picked a number from a hat. She multiplied that number by 3. Then she took the product and added 6 to it to get a result of 96. What number did Hannah start with?

Ava picked a number from the hat and did the same thing, but her result was 78 less than Hannah's result. What number did Ava start with?

Draw a number line. Label 0 up to 5.

Then put approximately where you think $\frac{5}{6}$ and $4\frac{3}{4}$ should go.

Is $2\frac{3}{5}$ closer to $\frac{5}{6}$ or $4\frac{3}{4}$?

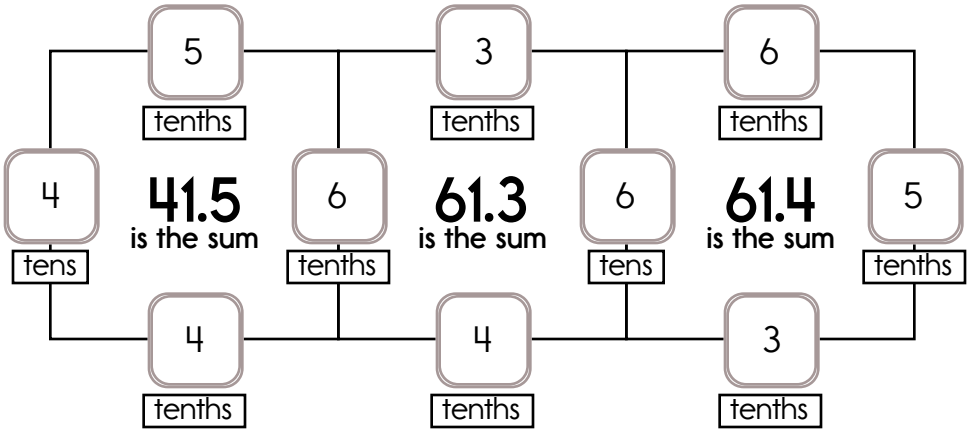
Name: _____

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

Example:
40 + 0.6 + 0.5 + 0.4 = 41.5

Example:
60 + 0.5 + 0.6 + 0.3 = 61.4

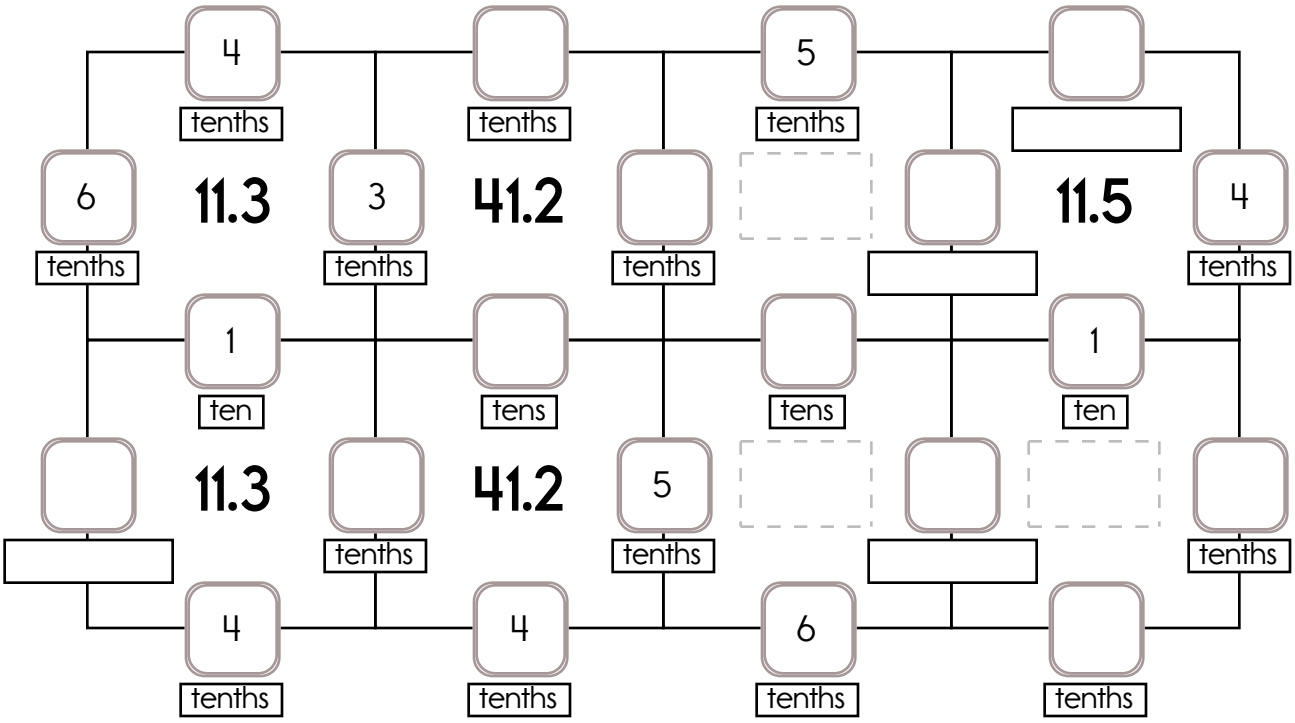
Sample:



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 tens, 4 tens, or 1 ten.

The other three numbers have to all be DIFFERENT and must be from these: 5 tenths, 4 tenths, 3 tenths, or 6 tenths.



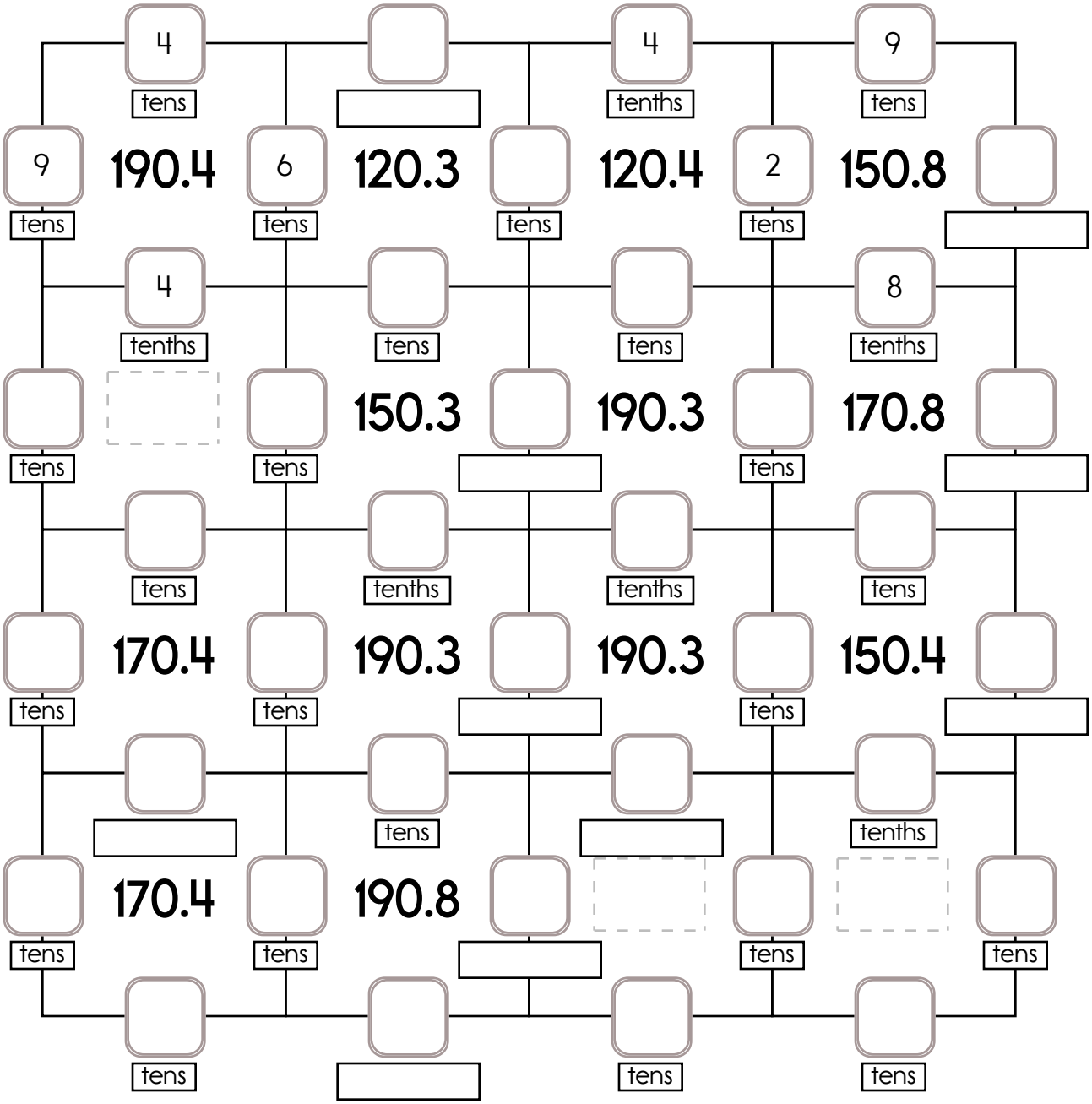
15 ÷ 5 =

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 tenths, 4 tenths, or 3 tenths.

The other three numbers have to all be DIFFERENT and must be from these: 9 tens, 6 tens, 2 tens, or 4 tens.

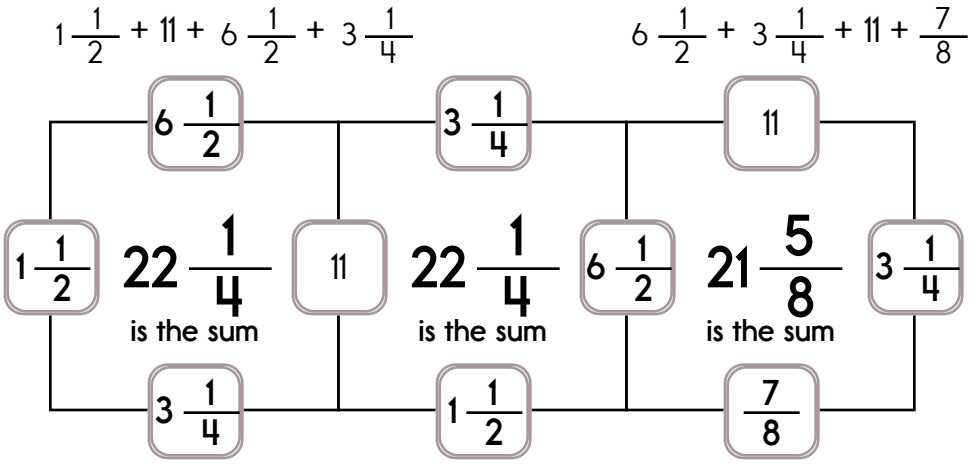


12 x 4 =

Name: _____

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

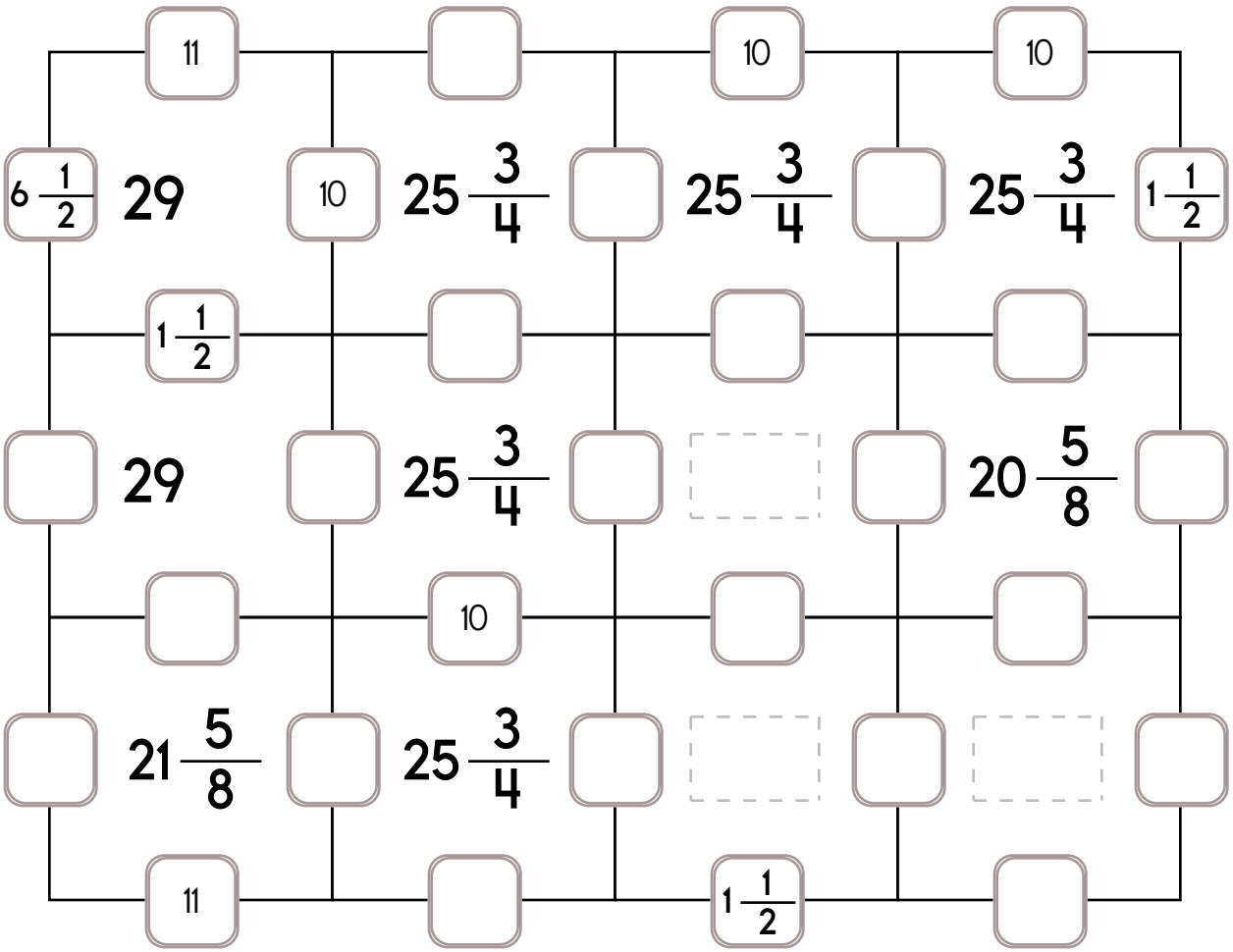
Sample:



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: $\frac{7}{8}$, $1\frac{1}{2}$, or $8\frac{5}{6}$.

The other three numbers have to all be DIFFERENT and must be from these: $3\frac{1}{4}$, 11, 10, or $6\frac{1}{2}$.

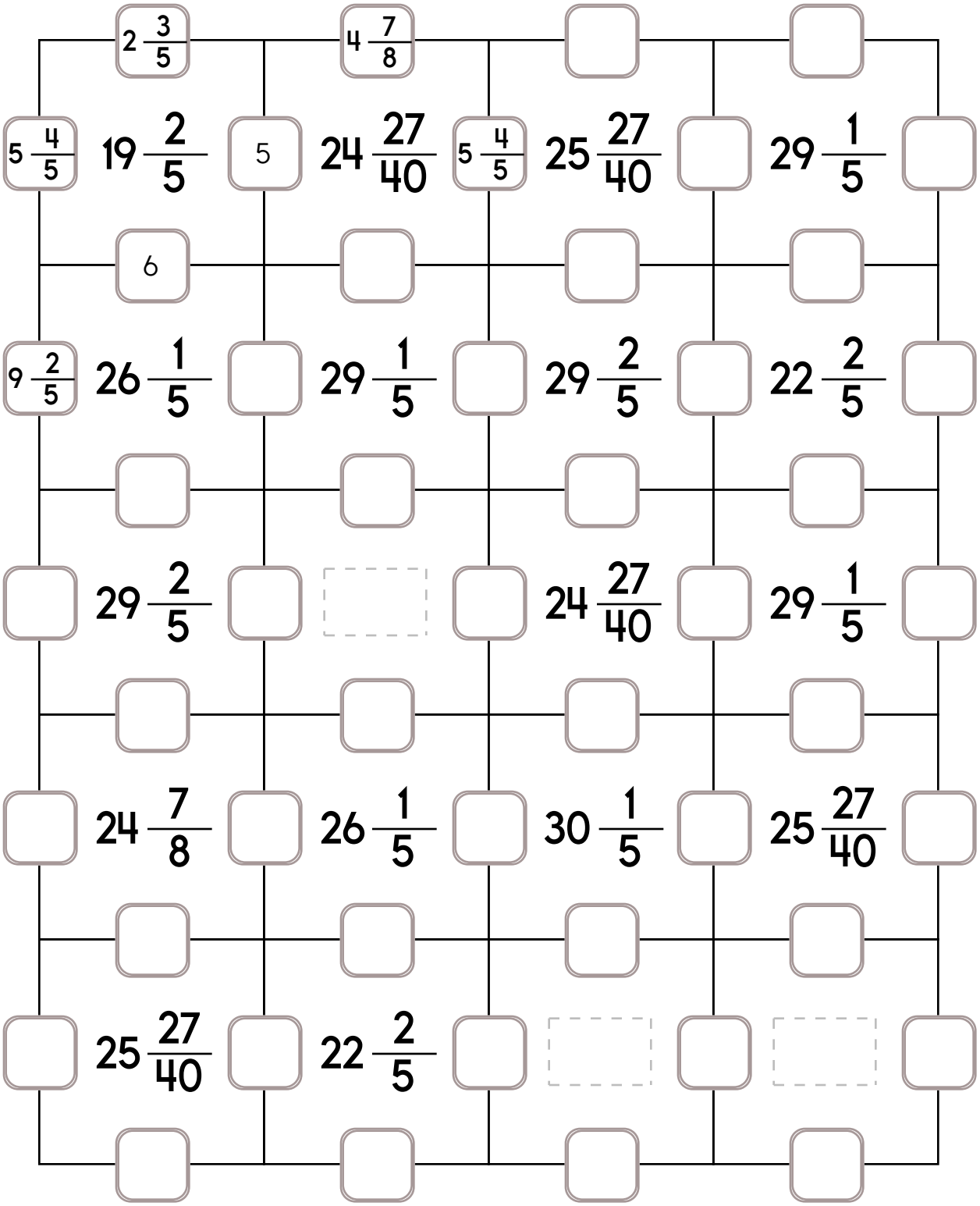


Name: _____

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: $2\frac{3}{5}$, $9\frac{2}{5}$, or $4\frac{7}{8}$.

The other three numbers have to all be DIFFERENT and must be from these: 6, 5, $5\frac{4}{5}$, or 9.

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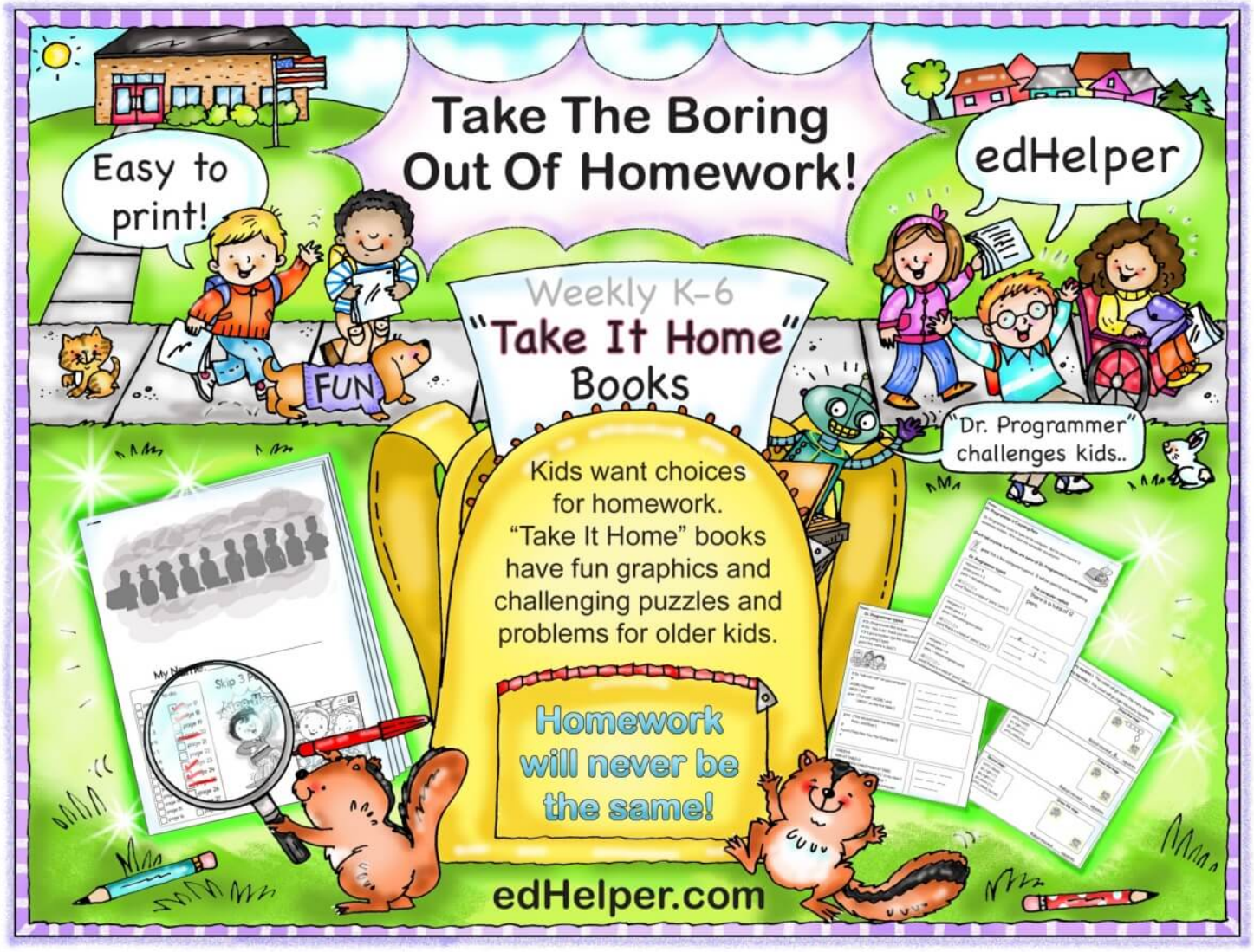
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