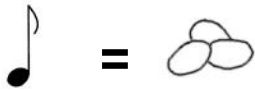
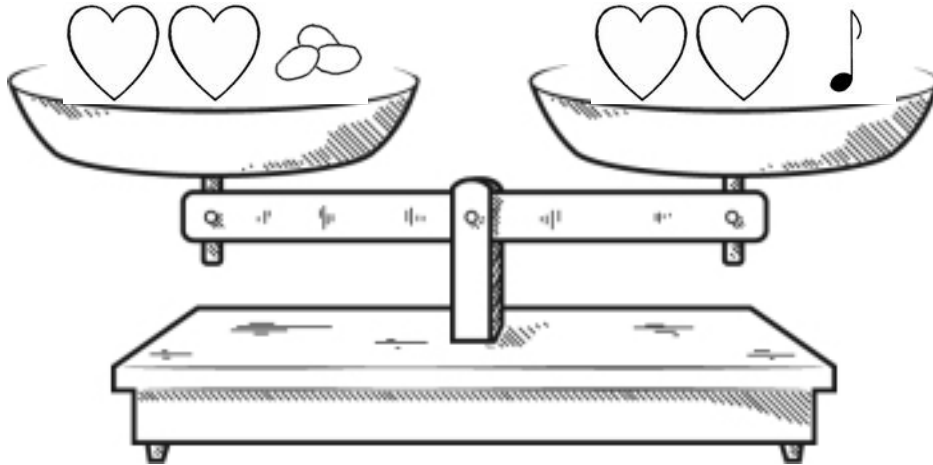
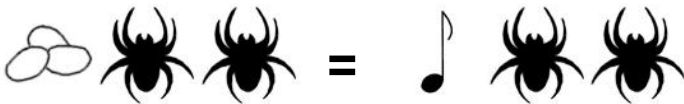
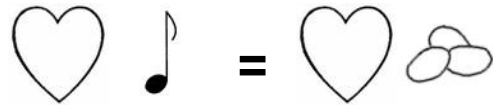
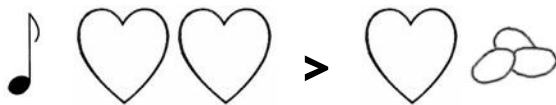
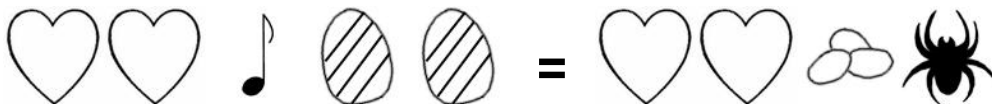


Name: _____

☐ True☐ False☐ True☐ False☐ True☐ False☐ True☐ False☐ True☐ False☐ True☐ False☐ True☐ False☐ True☐ False

Did you find that four are true? If not, look again!

Hint: If you see the same pieces on both sides, you might need to remove both pieces.

You should only mark TRUE if you are absolutely sure it is correct!

Name: _____

$3 - 4 - 13 =$

$-11 \times -5 =$

$-2 + 3 =$

$-18 \div -3 =$

$-6 - 4 =$

$-6 + -11 =$

$-3 - 4 - 2 =$

$2 - 3 - 2 =$

$-38 + 25 =$

$-12 - -9 =$

$-3 \times 12 =$

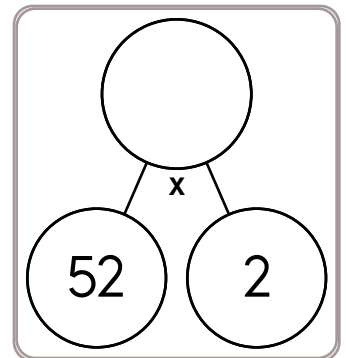
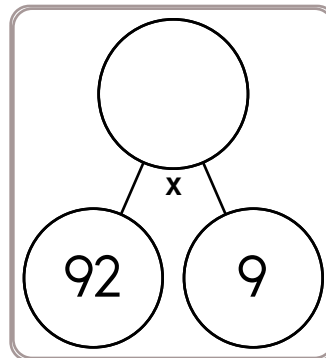
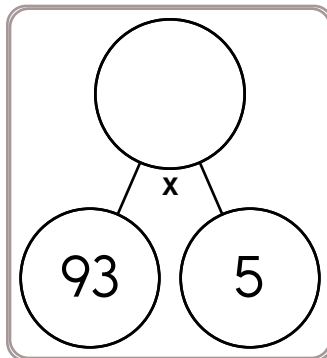
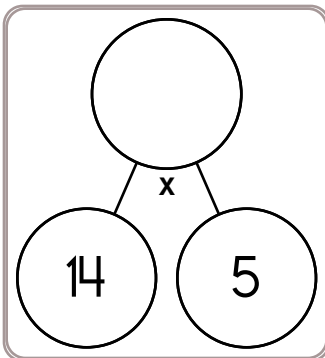
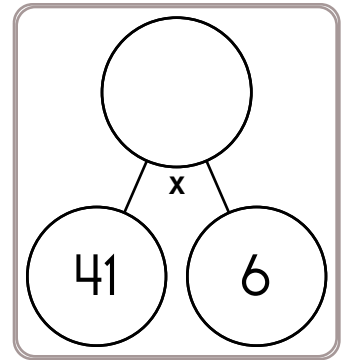
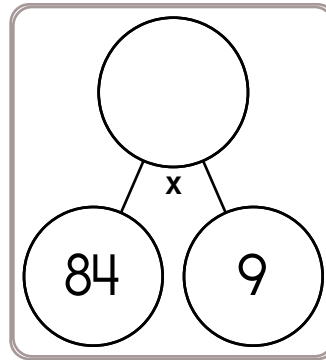
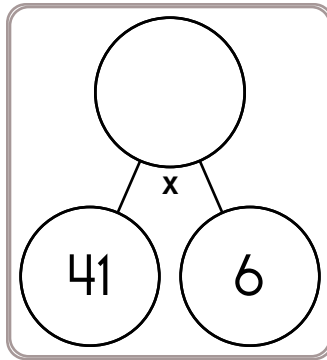
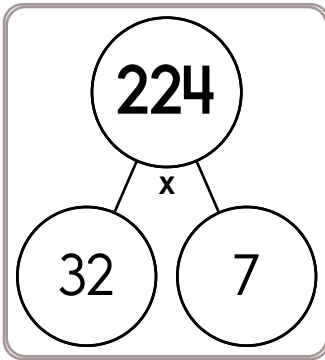
$-14 \div -2 =$

$-8 + -5 =$

$-7 - 9 =$

$\frac{9}{-1} =$

Name: _____



$$\begin{array}{r} 936 \\ - 164 \\ \hline \end{array}$$

$$\begin{array}{r} 562 \\ - 382 \\ \hline \end{array}$$

$$\begin{array}{r} 427 \\ - 121 \\ \hline \end{array}$$

$$\begin{array}{r} 817 \\ - 278 \\ \hline \end{array}$$

$$\begin{array}{r} 825 \\ - 464 \\ \hline \end{array}$$

$$\begin{array}{r} 977 \\ - 671 \\ \hline \end{array}$$

$$\begin{array}{r} 942 \\ - 893 \\ \hline \end{array}$$

$$\begin{array}{r} 401 \\ - 252 \\ \hline \end{array}$$

$$\begin{array}{r} 893 \\ - 755 \\ \hline \end{array}$$

$$\begin{array}{r} 926 \\ - 543 \\ \hline \end{array}$$



$836 - 136 =$

$633 - 414 =$

$620 - 371 =$

$392 - 314 =$

$716 - 404 =$

$751 - 488 =$

$836 - 751 =$

$909 - 802 =$

Name: _____

$$\begin{array}{r} 625 \\ - 592 \\ \hline \end{array}$$

$$\begin{array}{r} 844 \\ - 836 \\ \hline \end{array}$$

$$\begin{array}{r} 540 \\ - 448 \\ \hline \end{array}$$

$$\begin{array}{r} 831 \\ - 589 \\ \hline \end{array}$$

$$\begin{array}{r} 788 \\ - 547 \\ \hline \end{array}$$

$$\begin{array}{r} 945 \\ - 753 \\ \hline \end{array}$$

$$\begin{array}{r} 283 \\ - 188 \\ \hline \end{array}$$

$$\begin{array}{r} 457 \\ - 104 \\ \hline \end{array}$$

$$\begin{array}{r} 758 \\ - 629 \\ \hline \end{array}$$

$$\begin{array}{r} 713 \\ - 423 \\ \hline \end{array}$$



$$\underline{\quad\quad} - 385 = 101$$

$$\underline{\quad\quad} - 111 = 31$$

$$715 - \underline{\quad\quad} = 219$$

$$929 - \underline{\quad\quad} = 394$$

$$\underline{\quad\quad} - 590 = 127$$

$$\underline{\quad\quad} - 726 = 176$$

$$951 - \underline{\quad\quad} = 381$$

$$640 - \underline{\quad\quad} = 242$$

$$\begin{array}{c} 959 \\ + \\ 266 \end{array}$$

$$\begin{array}{c} 1399 \\ + \\ \quad \quad \end{array}$$

$$\begin{array}{c} 1448 \\ + \\ 648 \end{array}$$

$$\begin{array}{c} 1399 \\ + \\ \quad \quad \end{array}$$

$$\begin{array}{c} 1175 \\ + \\ 881 \end{array}$$

$$\begin{array}{c} 885 \\ + \\ 605 \end{array}$$

$$\begin{array}{c} 885 \\ + \\ \quad \quad \end{array}$$

$$\begin{array}{c} 1304 \\ + \\ \quad \quad \end{array}$$

Name: _____

Grandma Jefferson bought 7 journals for her memoirs. There are 595 pages in the journals in all. Each journal has an equal number of pages. How many pages are in each journal?

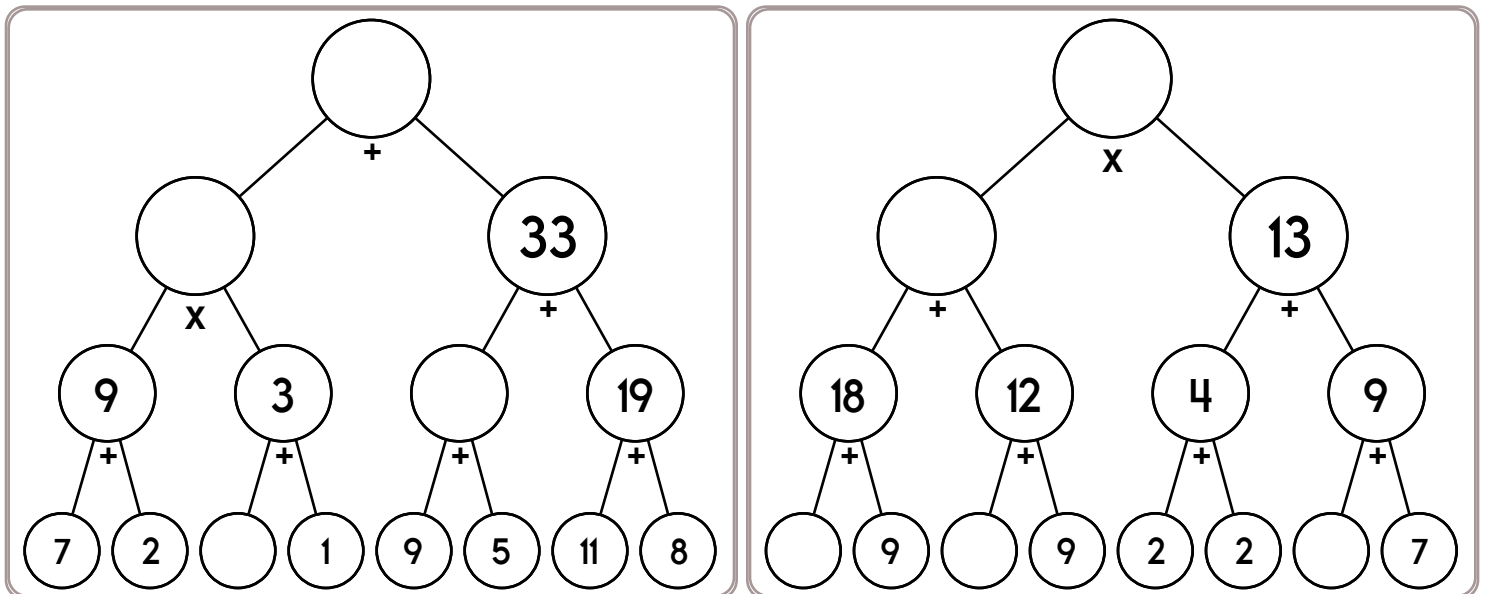
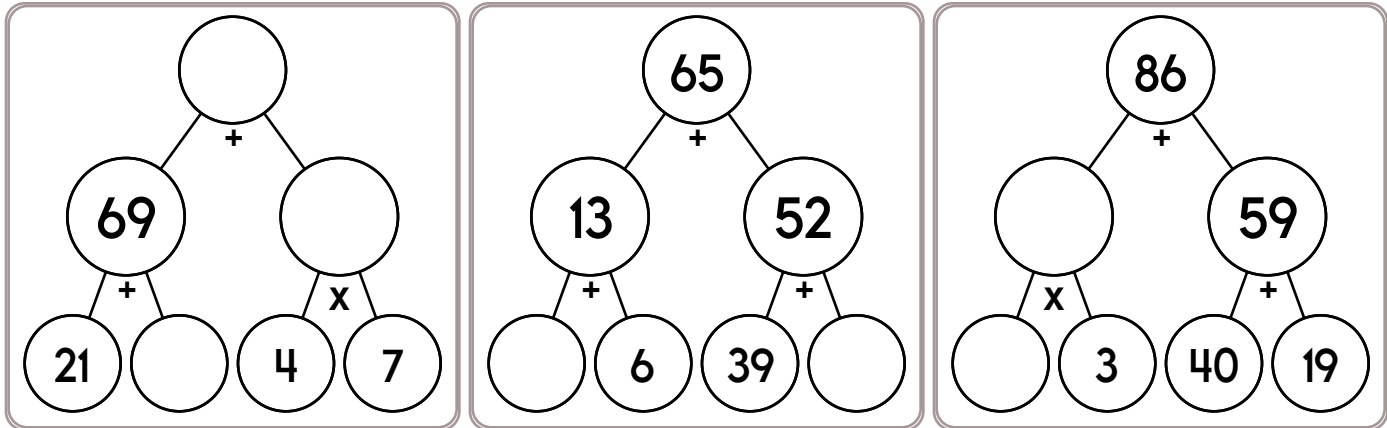
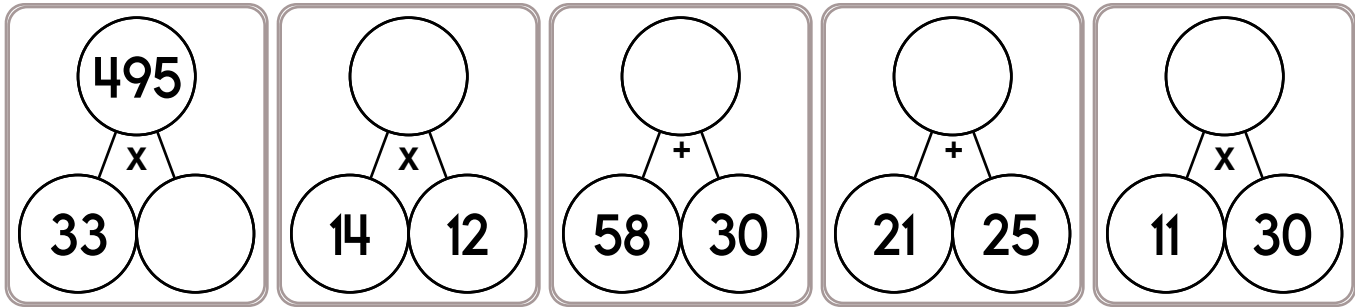
David was bored. He rode his bicycle 4.4 miles to his friend's house. If his average speed was 3 miles per hour, how long did it take him to get to his friend's house?

What number multiplied by 12 has a product of -216?

Emily got a summer job working on an app where people post pictures of their pets. This week they had 100,000 pictures posted. Of those pictures, 68% were dogs. How many pictures of dogs did they get this week?

word root **clam** can mean **cry out****clamor, exclamation**

Name: _____



Rewrite in scientific notation.

75,030,000,000

 $0.2 (0.7 (0.2 + 4)) =$

Simplify.

$$\frac{64}{72} =$$

word root **form** can mean **shape****formation, uniform**

Name: _____

$5 + -9 =$

$7 + -4 =$

$11 \times -7 =$

$11 - (4 + 5)$

Round the decimal 0.675 to the nearest hundredth.

The perimeter of a rectangle is 20 cm. The longer side is 7 cm. How long is the shorter side?

Write as a decimal.

$$\frac{8}{10}$$

Write as a decimal.
Forty-one thousandths

Write as a decimal.

$$\frac{7}{10}$$

$6 + 8 + 7 \times 2 - 3$

$0.11 \cdot 7 =$

$639 \div 10$

Change $\frac{4}{5}$ to a decimal.

Change $\frac{32}{100}$ to a decimal.

Change $\frac{1}{10}$ to a decimal.

Name: _____

Rewrite $12 + -6$

____ - ____ = ____

$$7 + -4 = \underline{\hspace{2cm}}$$

$$7 - 4 = \underline{\hspace{2cm}}$$

On a number line, what is the number that is 9 to the left of 5?

Yummy Donuts gave three dozen chocolate donuts and six dozen jelly donuts to the school. How many donuts did they give?

How much money is 1 quarter, 1 dime, 1 nickel, and 9 pennies?

It was 2 degrees below zero in the morning. By afternoon the temperature rose 24 degrees. How warm was it?

$$14 + m = 28$$

What is the greatest common factor of 2 and 12?

What is the least common multiple of 5 and 6?

If $m = 5$ and $j = -37$ then what is $9m + 14j - 4j = ?$

$$(0.8)(0.12)$$

Rewrite $\frac{2}{25}$ as a decimal.

What kind of angle has a measure of between 0° and 90° ?

Sketch an obtuse angle named $\angle ABC$.

Sketch an acute angle named $\angle EFG$.

Name: _____

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

A

74	61	21
- 39	77	72
23	33	43
24	69	75

Find a
subtraction fact.

B

25	68	22
- 75	80	34
32	27	8
69	6	78

Find a
subtraction fact.

C

1	75	86
- 97	78	7
61	64	41
92	76	47

Find a
subtraction fact.

Equations:

Write the equation facts you found.

A

	-	39	=	
B	-		=	
C	-		=	

You are given five cards. One card has the number 1 on it, another card has a 2, another card has a 3, another card has a 4, and the last card has the number 5 on it. Use two cards to make a fraction. What is the smallest fraction that you can make?

How many centimeters are in 80 millimeters?

_____ centimeters

27 lb = _____ oz

886
- 787

Name: _____

Write the final part of each math analogy.

one half of six : 3 :: one third of nine :

Explain why you think your answer is correct.

254 : 754 :: 186 :

Explain why you think your answer is correct.

PKFPKFPKFP_____ : K :: DHBDHBDHBD_____ :

Explain why you think your answer is correct.

PGPGP_____ : G :: BDBDB_____ :

Explain why you think your answer is correct.

63 dice in 7 bags : 9 :: 27 dice in 9 bags :

Explain why you think your answer is correct.

eighteen shoes : 9 :: four earrings :

Explain why you think your answer is correct.

Name: _____

Amanda has a messy desk. She has a total of 32 markers, pens, and pencils.

She has 3 times as many markers as pens.

She also has 7 more pencils than pens.

How many pens does she have?

What is $\frac{2}{5}$ of 70? Show your work.

Maria drew a square. She said, "My square's perimeter is 60 cm more than its area."

Amy wants to draw the same square but is confused. "You can't subtract area from perimeter," she replied. Amy knows the area should be in square centimeters and perimeter is in centimeters. Maria just thought they were both in centimeters. Can you figure out how long each side of her square is?

Name: _____

Complete each pattern.

c, ____, m, c, c, m, c, c, m, c, c, m

1, 1, v, v, 1, 1, v, v, 1, 1, v, v, 1, ____, ____

t, t, 2, 0, ____, ____, t, t, 2, 0, 0, 3, t, t, 2, 0, 0

Complete each pattern. Write what the rule is.

68763, ____, ____, 63687, 36876, 68763, 87636,
76368, 63687, 36876, 68763, 87636, 76368, 63687

73869, 38697, ____, ____, 97386, 73869, 38697,
____, ____, 97386, 73869, 38697, 86973, 69738

Name: _____

Complete each pattern, using the same rule. Write what the rule is.

D, G, F, J, H, M, J, P, L, S, ____, V

B, H, D, K, F, N, H, Q, J, T, L, ____

C, F, E, I, ____, ____, I, O, K, R, M, U

Complete each pattern. Write what the rule is.

_____, _____, $12 \frac{13}{15}$, $13 \frac{1}{5}$, $13 \frac{2}{5}$, $13 \frac{11}{15}$, $13 \frac{14}{15}$,
 $14 \frac{4}{15}$, $14 \frac{7}{15}$, $14 \frac{4}{5}$, **15**, $15 \frac{1}{3}$, $15 \frac{8}{15}$

$17 \frac{2}{3}$, **18**, $18 \frac{1}{5}$, $18 \frac{8}{15}$, $18 \frac{11}{15}$, $19 \frac{1}{15}$, $19 \frac{4}{15}$,
 $19 \frac{3}{5}$, _____, _____, $20 \frac{1}{3}$, $20 \frac{2}{3}$, $20 \frac{13}{15}$, _____

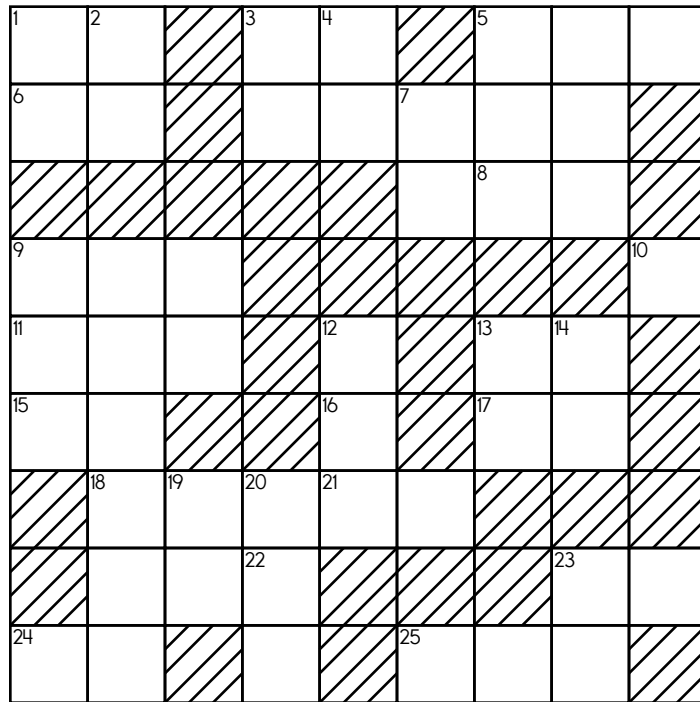
Name: _____

ACROSS

5. Four less than 11-Across
6. Five times 17-Across
7. Six more than 5-Across
8. One-eighth of 11-Across
9. Eight times 8-Across
10. $9 + 9 = 2 \times \underline{\hspace{1cm}}$
11. Nickels in eight dollars
13. Five less than 2-Down
15. One-seventh of 18-Down
16. One-seventh of 11-Down
17. One-fourth of 21-Across
21. Four times 11-Down
23. Two more than 4-Down
25. Six times 8-Across

DOWN

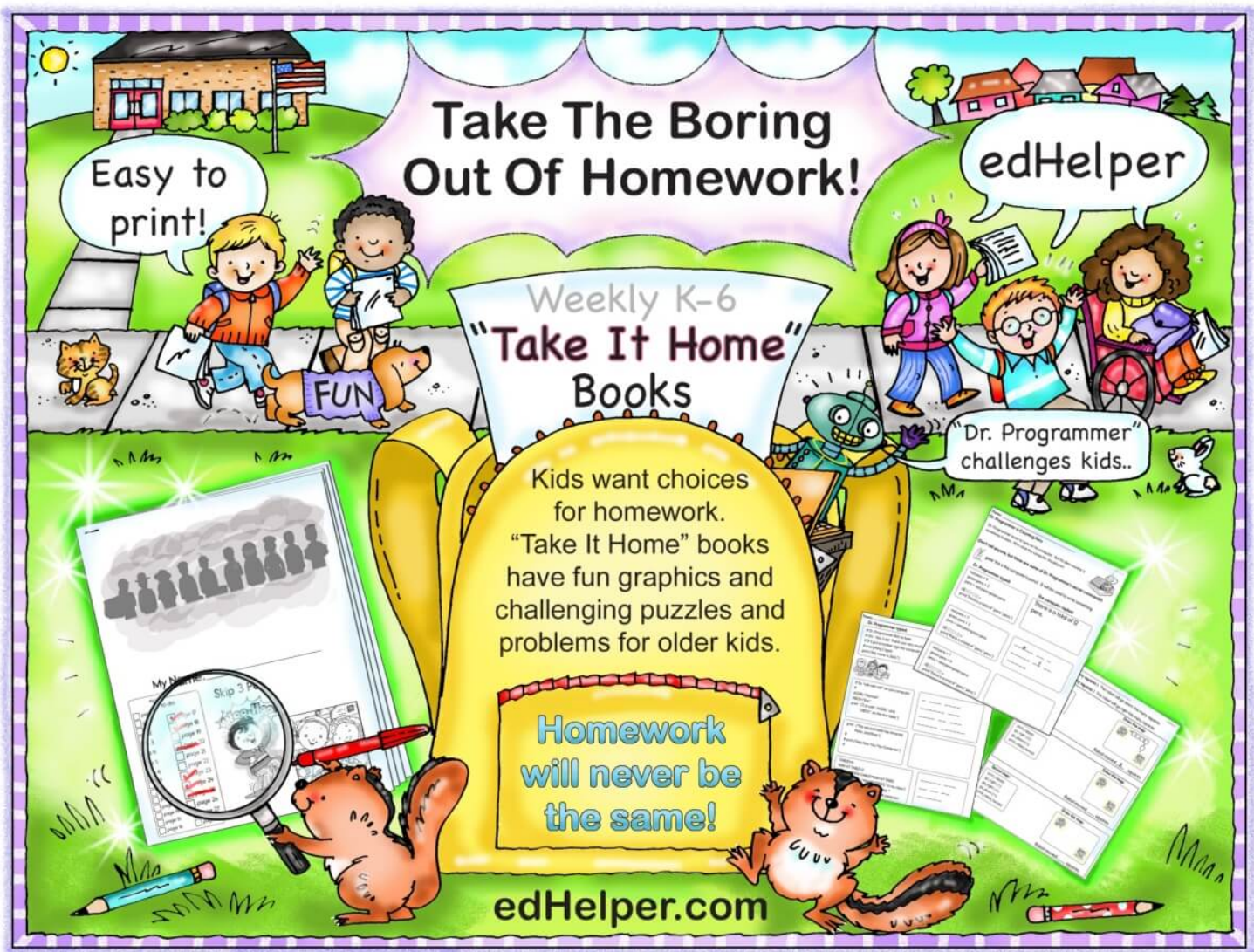
1. Two more than 23-Across
2. Two times 8-Across
3. One more than 21-Across
4. One less than 22-Down
5. Two more than 11-Across
7. One-ninth of 7-Across
11. Six less than 8-Across
12. Five more than 25-Across
14. 22-Down plus 8-Across
18. 5-Down plus 11-Across
19. 21-Across plus 22-Down
20. 25-Across plus 11-Down
22. 8-Across plus 11-Down
24. Eight less than 17-Across



$7,395 + 9,953 = \underline{\hspace{2cm}}$

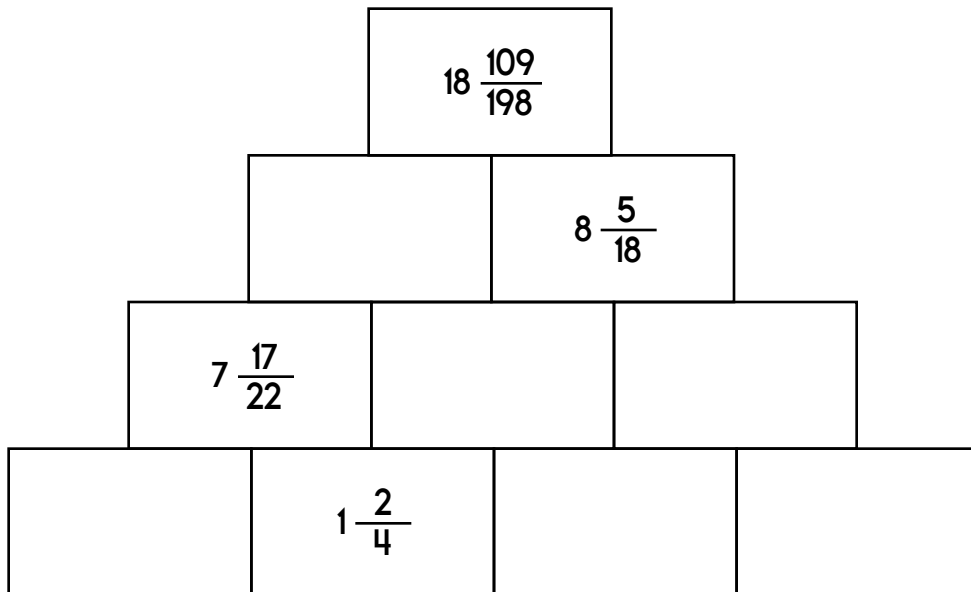
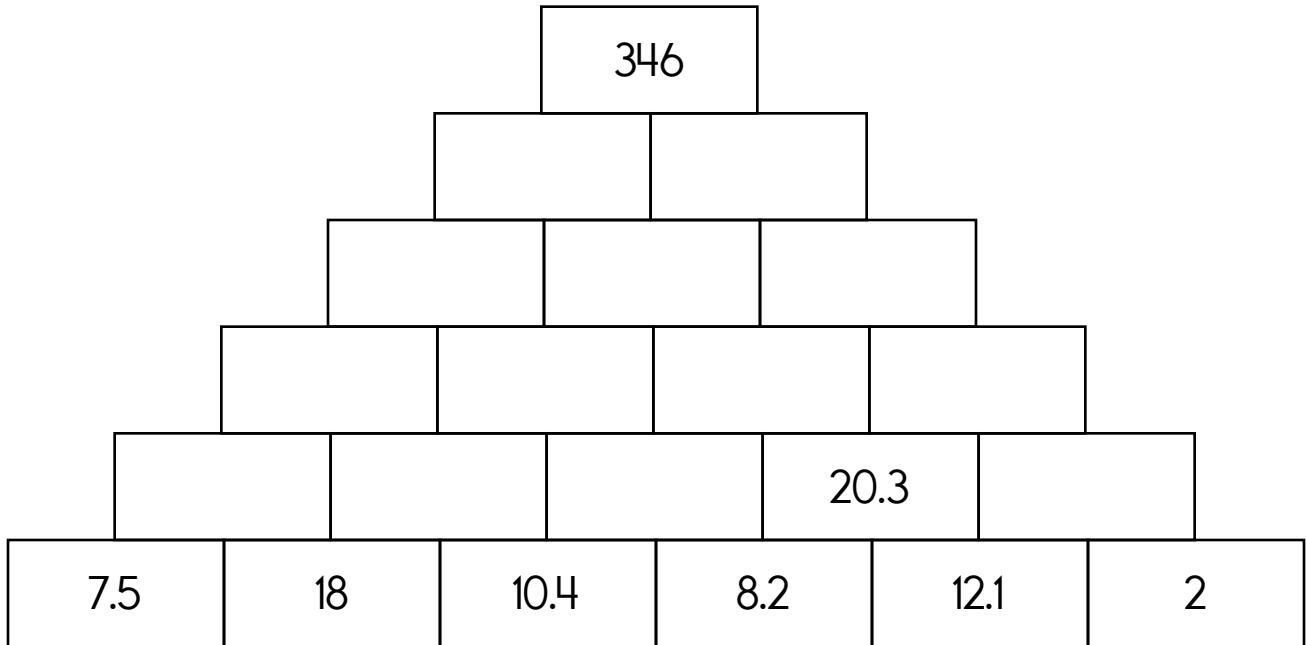
Holly rolls a die. What is the chance of her rolling a 2?





Name: _____

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



Write this as a number in standard form.
Use a comma in your number.

one hundred fifty-seven thousand, two
hundred eleven

1 km = 1,000 m

18 km = _____ m

$$\begin{array}{r} 42 \\ - 19 \\ \hline \end{array}$$

Name: _____

Anna is playing Hannah a game of sock basketball. Hannah is currently leading 19 to 15. They play for a few more minutes till the final score of 16 to 19 is reached. Can you tell who won?

Amanda is playing Sarah a game of sock basketball. Sarah is currently leading 20 to 13. They play for a few more minutes till the final score of 23 to 24 is reached. Can you tell who won?

Erin rode her bike to Rose's house. Leaving her driveway, she turned left and rode about 2.6 kilometers where she turned right. Rose's house was the sixth house on the right side of the road. It's getting late, and Erin needs to go home, but she has brain freeze. Write directions on how she should ride her bike home from Rose's house.

Amy is giving away money to everyone at her birthday party. For each consonant in a name, she gives out \$2.29. For each vowel she gives \$4. Ava and Jessica are leaving the party. How much should each of them get?

Jason is trying to make as many cupcakes as he can, but he is down to his last 2 eggs. The recipe calls for 3 eggs, 3 cups of sugar, and 4 cups of flour. How much sugar and flour should he use?

Name: _____

$54\frac{4}{7}$	$-\frac{1}{3}$		-13		-36		$+1\frac{3}{7}$	
				+54			+12	+40
				$-6\frac{4}{7}$			$-\frac{1}{3}$	
	-38		$-\frac{2}{3}$		$-\frac{4}{7}$		+37	
-3					$52\frac{1}{3}$			
	$-\frac{2}{3}$		-8		+14		-49	$53\frac{1}{3}$

$3 \times 9 =$	$21 \div 3 =$ _____	$\begin{array}{r} 23 \\ + 34 \\ \hline \end{array}$	$\begin{array}{r} 357 \\ + 455 \\ \hline \end{array}$
	$2 \times 10 =$ _____		

$20 \div 10 =$ _____	Circle the digit in the tenths place. 23.732	$48 \div 6 =$ _____
----------------------	---	---------------------



















Name: _____

The product of two numbers is -84 . The difference between the numbers is 19 . If the numbers are integers, what are possible values?

One side of a rectangle is 4 centimeters longer than the other side. The perimeter is 28 centimeters. How long is the longest side?

Name: _____

Puzzle:

	7		7		36
					38
		7	7		40
	7				33
	b		b		24
38	40	37	26	30	+

Work Area:

	7		7		36
					38
		7	7		40
	7				33
					24
38	40	37	26	30	+

The sum for each column
and row is given.

$$\begin{array}{l} \text{b} = \underline{\hspace{2cm}} \\ \text{shovel} = \underline{\hspace{2cm}} \end{array}$$

$$\begin{array}{l} \text{pencil} = \underline{\hspace{2cm}} \\ \text{kangaroo} = \underline{\hspace{2cm}} \end{array}$$

$$\text{cup} = \underline{\hspace{2cm}}$$

$$\begin{array}{r} 6.94 \\ - 4.7 \\ \hline \end{array}$$

Find the difference
between 14.9 and 8.7.

$$\begin{array}{r} 0.8 \\ - 0.47 \\ \hline \end{array}$$

How many minutes is it
from 8:00 a.m. to 11:55 a.m.?

$$54 \div 6 + 4$$

108 divided by 9 equals

Name: _____

$$|-56| \times |36| =$$

$$(7 + 4) - 5 + 9 + 5$$

$$0.6 (0.5 (0.6 + 2)) =$$

If $z = 5$ and $w = -49$ then
what is $9z - 12w - 3w = ?$

$$14m - 29.9 = 96.1$$

$$m =$$

$$0.9 \times 0.05$$

60, 66, 72, 78, 84, 90,
96, _____, 108, 114

$$|-8| + p = 16$$

$$p =$$

$$2 \times 2 \times 2 \times 2 \times 2 = 2^x$$

What is the value of x ?

$$(9 + 15) + 6 = 2(v + 7)$$

What is the value of v ?

$$t - 6 + t = 32$$

What is the value of t ?

$$y = x + 17$$

$$y = 26$$

What is the value of x ?

Name: _____

$$9 \times 9 \times 9 = x^3$$

What is the value of x?

In what quadrant would you find the point (2, 19)?

$$\frac{15}{22} \div \frac{9}{11} =$$

9, 4, C, 8, 9, 4, C, 8,
9, 4, _____, 8, 9, 4, C,
8

A circle graph has five sections. Only four sections are labeled. The labels are 17%, 10%, 27%, and 20%. What should the missing section be?

A circle graph has four sections. Only three sections are labeled. The labels are 16%, 13%, and 14%. What should the missing section be?

$$0.17 \cdot 9 =$$

70, 80, 90, _____, 110,
120

Simplify.

$$\frac{6,800}{30,600} =$$

What is the greatest common factor of the numbers 84 and 36?

$$2 + 42 \div 6 - 40 \div 10 =$$

Simplify.

$$\frac{32}{56} =$$

What is the remainder of 49 divided by 8?

$$0.4 (0.8 (0.4 \times 7)) =$$

$$467 \div 10$$

Name: _____

1 is written with an I.

5 is written with a V.

10 is written with an X.

50 is written with an L.

100 is written with a C.

You cannot have 4 of the same letter consecutively.

4 is written as IV.

9 is written as IX.

40 is written as XL.

So you cannot write 44 like this: XXXXIIII.

But you would write 44 like this: XLIV.

Write the number as a Roman numeral and then find the Roman numeral.

Roman Numerals

I = _____

IV = _____

VIII = _____

IX = _____

XI = _____

XIV = _____

XVI = _____

XIX = _____

XLI = _____

1 _____

IXVXXXIIXX
XXIIIXXVIII8 VIIIIVIIIXXXVV
IIIVIIIXLILX

6 _____

VIXXLIVXVI
IXIVVIXLVI

3 _____

XXIIIIVVIII
XIIIVIIIVII

12 _____

XIXXXIXIIXX
XVIIIXIIIVV

7 _____

XVIVIIIXLIXI
VIIIXIIIXXX

11 _____

XXXIXXIIVII
XXXIIIXXIXV

15 _____

VIIILXVXLV
XVXXXVIIXV

34 _____

XLIXIXXXIVI
XXXXIVVIII16 XVIXVIIVXXXIV
IXXXVIXLIII

19 _____

IXXXIXXIXVI
IIXIVXIXVII

27 _____

VXXVIIIIIXI
XVIIIXXVIILL

43 _____

XLIVXLIIIXL
XLIIIXIVXLI

42 _____

XLIXIXLIIIV
XXLIIVXIIVI

50 _____

IIVLXXIXVV
XLVIIIIXXIII

56 _____

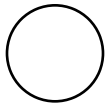
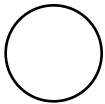
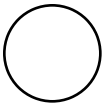
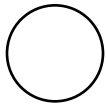
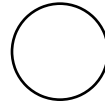
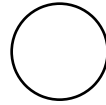
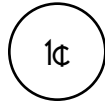
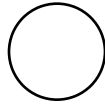
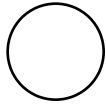
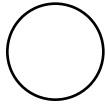
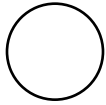
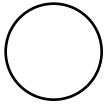
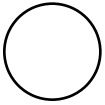
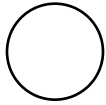
LVIIIVIVIII
XVILVIXIIIX

Name: _____

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

Pam has \$16.14. She has 3 bills and 14 coins. How?

\$10



Erin has \$45.15. She has 5 bills and 12 coins. How?

Nathan has \$41.12. He has 6 bills and 14 coins. How?

Name: _____

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

Make \$12.37 any way you want!

Make \$51.38 any way you want!

Make \$13.24 any way you want!

Make \$16.37 any way you want!

$$4,773 - 3,597 = \underline{\hspace{2cm}}$$

Name: _____

$5 + 9 = \underline{\quad}$

$4 + 4 = \underline{\quad}$

$2 + 9 = \underline{\quad}$

$9 + 6 = \underline{\quad}$

$7 + 8 = \underline{\quad}$

$6 + 5 = \underline{\quad}$



How many times
do you need to spin?

I needed to spin _____
time(s) to finish the page.

$1 + 1 = \underline{\quad}$

$8 + 5 = \underline{\quad}$

$3 + 9 = \underline{\quad}$

Spin fidget spinner. Quick!

I needed to spin _____ time(s) to finish.

$56 \div 8 = \underline{\quad}$

$7 + 3 = \underline{\quad}$

$5 + 3 = \underline{\quad}$

$5 \times 4 = \underline{\quad}$

$4 + 6 = \underline{\quad}$

$5 \times 8 = \underline{\quad}$

$7 + 5 = \underline{\quad}$

$9 - 3 = \underline{\quad}$

$9 - 5 = \underline{\quad}$

$24 \div 8 = \underline{\quad}$

$8 + 3 = \underline{\quad}$

$7 + 3 = \underline{\quad}$

$7 + 4 = \underline{\quad}$

$8 + 7 = \underline{\quad}$

$8 \times 3 = \underline{\quad}$

$7 \times 9 = \underline{\quad}$

$3 + 3 = \underline{\quad}$

$8 \times 5 = \underline{\quad}$

$4 + 9 = \underline{\quad}$

$18 \div 6 = \underline{\quad}$

$7 - 3 = \underline{\quad}$

$7 + 5 = \underline{\quad}$

$6 + 7 = \underline{\quad}$

$4 \times 6 = \underline{\quad}$

$9 + 4 = \underline{\quad}$

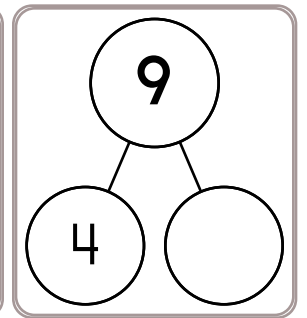
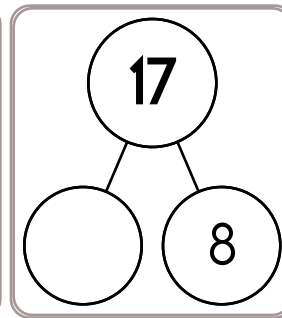
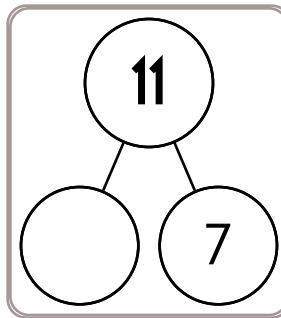
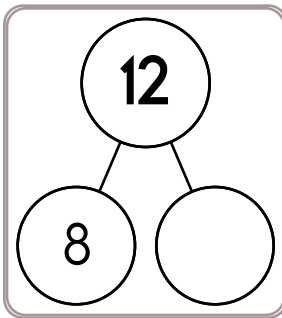
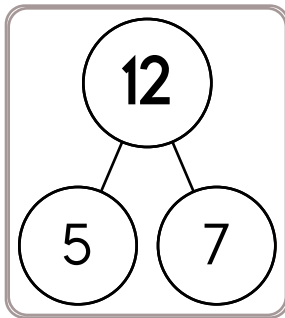
$7 \times 9 = \underline{\quad}$

$28 \div 7 = \underline{\quad}$

$9 \times 9 = \underline{\quad}$

$8 \times 5 = \underline{\quad}$

$4 + 7 = \underline{\quad}$



$38 + 8 = \underline{\quad}$

$24 + 4 = \underline{\quad}$

$78 + 9 = \underline{\quad}$

$44 + 8 = \underline{\quad}$

$56 + 4 = \underline{\quad}$

$16 + 3 = \underline{\quad}$

$65 + 9 = \underline{\quad}$

$58 + 4 = \underline{\quad}$

$68 + 3 = \underline{\quad}$

$34 + 6 = \underline{\quad}$

$15 + 8 = \underline{\quad}$

$43 + 3 = \underline{\quad}$

$73 + 8 = \underline{\quad}$

$28 + 5 = \underline{\quad}$

$76 + 7 = \underline{\quad}$

$45 + 7 = \underline{\quad}$

$35 + 8 = \underline{\quad}$

$28 + 6 = \underline{\quad}$

$56 + 4 = \underline{\quad}$

$69 + 5 = \underline{\quad}$

$17 + 8 = \underline{\quad}$

$23 + 4 = \underline{\quad}$

$17 + 5 = \underline{\quad}$

$34 + 3 = \underline{\quad}$

$79 + 6 = \underline{\quad}$

Name: _____

April loved lime-flavored soda, but it was hard to find the soda at the store. One time she couldn't find any of it for over a week. When she finally found three 2-liter bottles at Mark's Market, she bought all three and drank them in less than a day! How many pints of lime-flavored soda did she drink?

Jack sent a bouquet of 20 balloons to his mother on Parent's Day. The balloons cost \$1.05 each. There was an added charge of \$0.10 per balloon to have them blown up. The delivery charge was \$7.18. Jack paid for everything with a \$50-dollar bill. How much change did he get?

Which two of these numbers have a product of 1.024?

5.1

0.72

3.2

0.32

7.2

0.51

0.072

0.051

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

 9^3 9^6 9^1 3^6 3^4 3^1

Name: _____

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

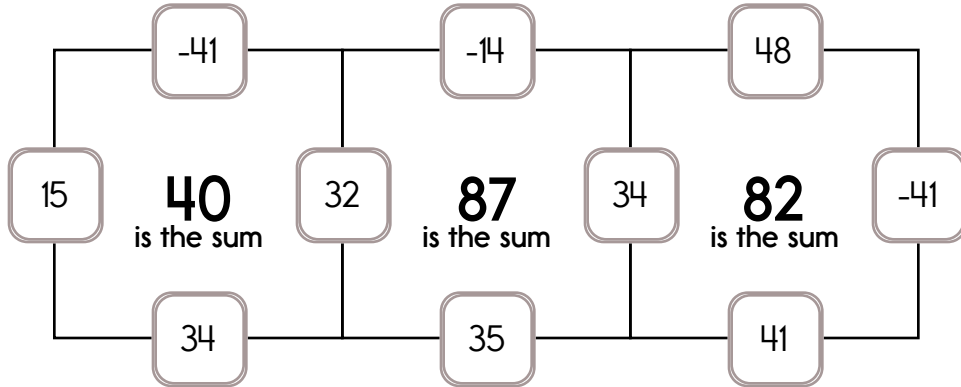
Example:

$$15 + 32 + (-41) + 34 = 40$$

Example:

$$34 + (-41) + 48 + 41 = 82$$

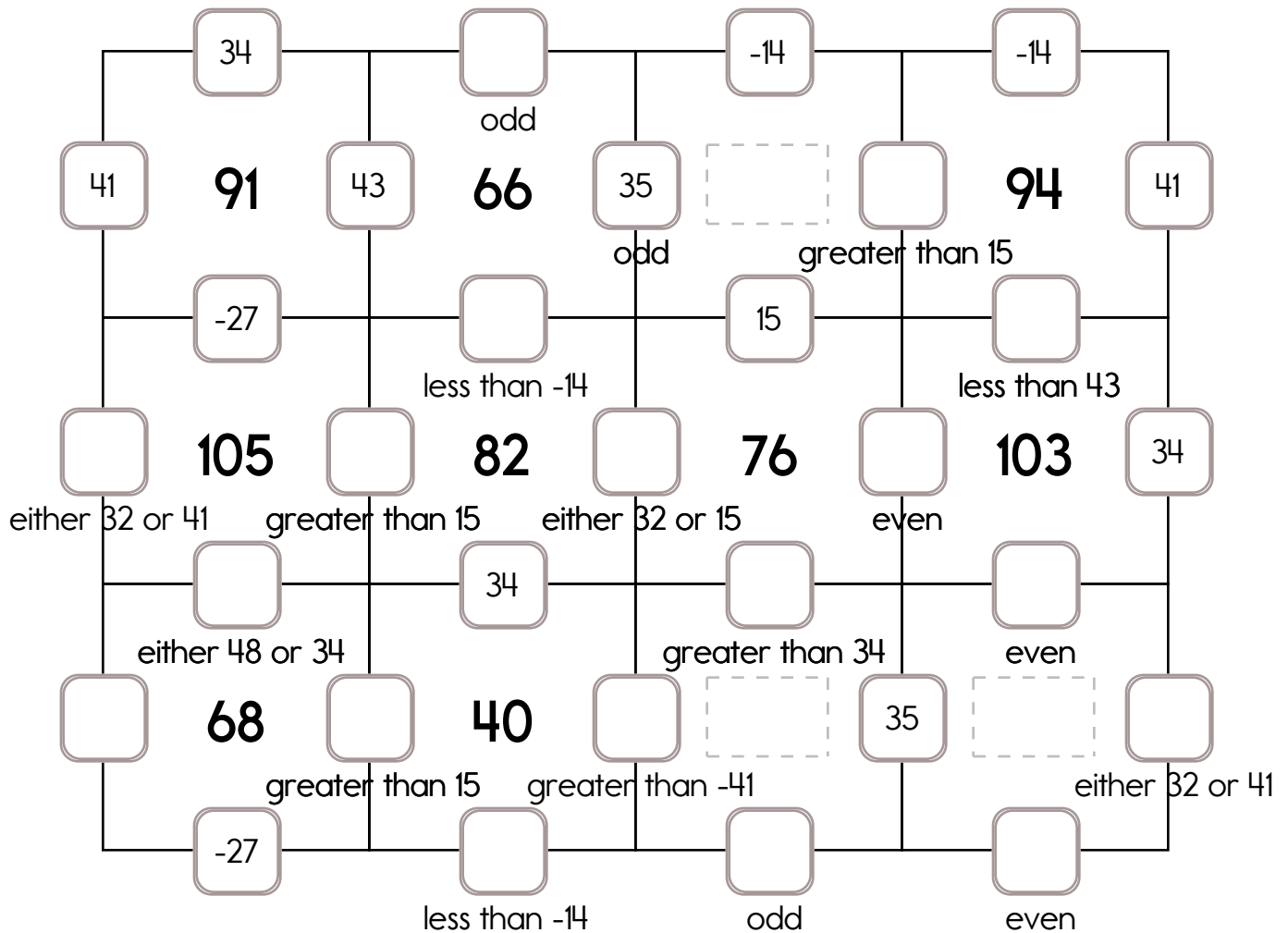
Sample:



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: -41, -14, or -27.

The other three numbers have to all be DIFFERENT and must be from these: 32, 34, 35, 48, 41, 15, or 43.



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: -40, -39, or -20. The other three numbers have to all be DIFFERENT and must be from these: 21, 47, 39, 13, 42, 44, or 22.

	47			-39		
		either 44 or 47			less than -20	
21	68	-39	65	39	63	21
		less than 44		42		either 21 or 13
39						
		greater than 13				either 13 or 47
	110		84	-20	57	
		even			odd	
	even		less than 42	even		greater than -40
	93		79		67	67
		odd			greater than 13	either 47 or 44
			either 13 or 42	even		greater than 13
	74		63		72	43
	even		less than -20		greater than 13	odd
	greater than 13		even		even	less than -20
	51		65			
	odd		greater than 13	either 22 or 13	either 21 or 13	
	greater than 13					even

Name: _____

Find the way from START to END by passing only through numbers that are multiples of nine.

You can go up, down, left, right, AND diagonally!











START	810	117	576	765	792	10	66	799	804
302	143	330	661	991	828	441	162	180	774
419	1	796	471	772	252	486	865	150	594
259	854	78	66	276	929	653	265	957	639
679	366	176	676	277	0	837	369	126	774
94	407	223	267	215	297	630	468	270	432
990	630	585	639	936	747	651	969	138	687
540	504	378	386	892	417	551	111	203	591
837	468	54	369	801	666	63	107	138	858
560	855	702	136	552	516	882	765	738	END

Name: _____

Each row, column, and box must have the numbers 1 through 6. The first box is done.

5	4	3	1		
1	2	6			5
	1				4
	3		6		
4			2		

Each row, column, and box must have 6 different pictures.

Name: _____

Hannah and Rosa are playing a new giveaway game. The game is in the shape of a circle. A light goes around the circle. When a player presses the button, the light stops. Players can win 1 ticket, 2 tickets, 3 tickets, 4 tickets, 5 tickets, 6 tickets, 7 tickets, or 8 tickets, depending on where the light stops. Hannah played one round, and then Rosa played a round. What is the probability that they both won more than 4 tickets?

Estimate the smallest product you think you could get by multiplying two positive whole numbers. The first number needs to have 2 digits, and the second number needs to have 2 digits. Explain your estimation.

Now try to actually find the smallest product.

A new book has been published. It is a fictional tale about the mad scientist Erin who is supposedly 260 years old and has invented a new robot. This robot doesn't walk, it doesn't run, but it can hop at a speed of 9,445 meters per hour. The robot's name is Connor, and it wants to visit a friend. The friend lives 35 kilometers away. How long would it take Connor to hop to its friend's house?



Draw a circle that has an area close to 128 square units.

Name: _____

How many barks are equal to 6 roars?

$$\begin{aligned}6 \text{ roars} &= 3 \text{ growls} \\12 \text{ growls} &= 72 \text{ meows} \\2 \text{ meows} &= 1 \text{ bark}\end{aligned}$$

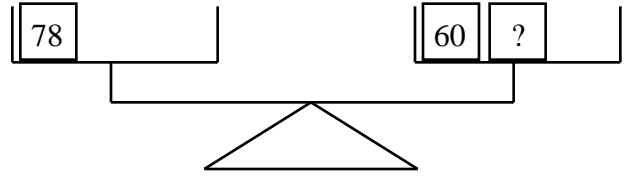
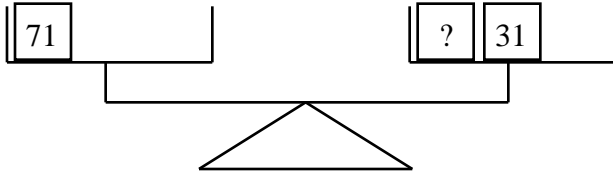
Mrs. Hernandez sent an e-mail out to parents asking them to send balloons to class.

Sara brought in $\frac{1}{5}$ as many balloons as Connor. Connor brought in $\frac{1}{4}$ as many balloons as Jenna. Who brought in the most balloons?

Did you guess Jenna? You would be correct. She brought in 60 balloons! How many balloons did Sara and Connor bring to class?

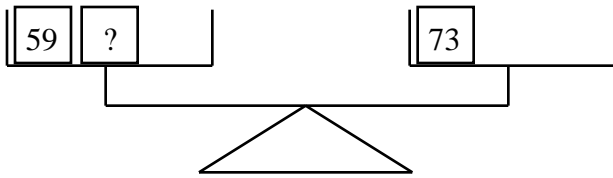
Sarah has a new job working at Pizzeria Magpie. She loves it, but she can only work three hours on Monday, three hours on Tuesday, and seven hours on Saturday. The pizzeria will give her a check every two weeks. She will be paid \$13.80 per hour. How much will her first paycheck be?

Name: _____

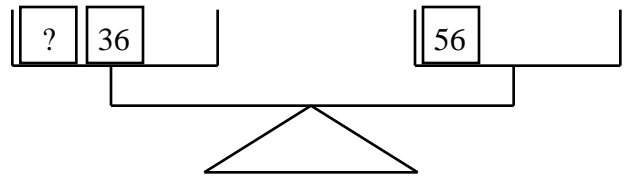


$$71 = 40 + 31$$

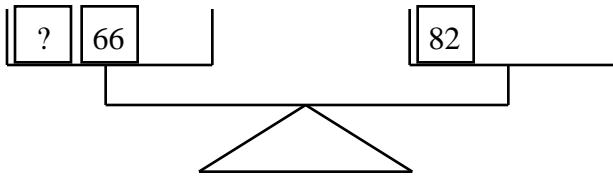
$$=$$



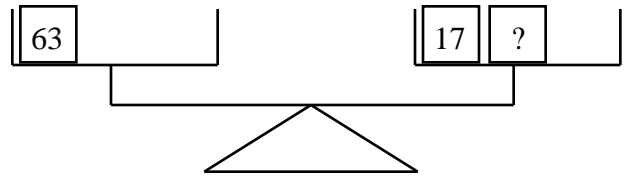
$$=$$



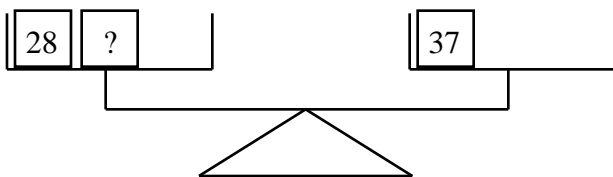
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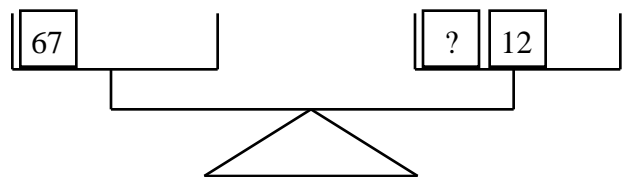
$$=$$



$$=$$



$$=$$



$$=$$

Name: _____

77	+49		+11		$+1\frac{2}{3}$		$-\frac{11}{12}$		+2
				$+\frac{2}{12}$	$+\frac{1}{2}$				
							+17		
	$-3\frac{1}{3}$		$+\frac{7}{12}$		$-\frac{2}{3}$		-59		
-7									
					-25		+5		
-29					$159\frac{5}{12}$				
	$+\frac{1}{2}$		$+\frac{1}{2}$		+56		+21	133	

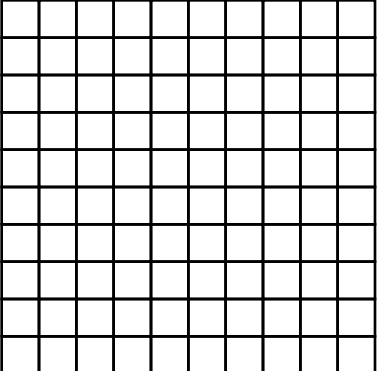
$132 \div 12 =$ _____	$3 \times 9 =$ _____	The letters B and E each have a line of symmetry. Name another letter between B and E that has a line of symmetry. _____

$66,669 - 14,256 =$ _____

Name: _____

<p>Anne went to the circus with her father and mother. The best part of the circus was the clown. He could juggle and make people laugh at the same time! The tickets cost \$5.74 each. How much did it cost for Anne, her father, and her mother to go to the circus?</p>	<p>Wendy went to the store. She bought a box of pasta for \$1.60, some cheese for \$2.11, and pasta sauce for \$3.78. How much did she spend in all?</p>	<p>Robert is painting a picture of his dog. He has painted for 2 hours and 23 minutes. He will be finished in 30 minutes. How long will it take him in all to do the painting?</p>
--	--	--

<p><input type="radio"/> wek</p> <p><input type="radio"/> weekk</p> <p><input type="radio"/> wuek</p> <p><input type="radio"/> week</p>	<p>Which is longer: three feet or thirty-one inches?</p> <p>_____</p>	<p>What number is one hundred thousand more than 7,397?</p> <p>_____</p>
---	---	--

<p>Color $\frac{9}{10}$.</p> 	<p>You ask Megan for the time. She says it is half-past 10. Write the time on your digital clock:</p> <div style="border: 1px solid black; border-radius: 15px; width: 150px; height: 40px; margin: 10px auto; text-align: center; line-height: 40px;">:</div>	<p>How many inches are in two feet?</p> <p>_____</p>
---	--	--

<p>In the number 458,216, what digit is in the hundreds place?</p> <p>_____</p>	<p>Circle the word that best completes the sentence.</p> <p>If you are going to the bathroom, please take your little brother, (to/too).</p>
---	--

Name: _____

What does the _____ stand for in the following equation?

$$(\text{_____} \times 6) + 18 = 72$$

- A) 3
- B) 54
- C) 48
- D) 9

What number replaces the _____ to make this a true statement?

$$15 \times \text{_____} = 90 \times 3$$

- A) 21
- B) 18
- C) 2
- D) pennies

The volume of a box is 240 cubic inches. What is the volume of a larger box whose dimensions are three times the size of each dimension for the smaller box?

- A) 4399 cubic inches
- B) 6480 cubic inches
- C) 5861 cubic inches
- D) 720 cubic inches

Which two numbers are both factors of 72?

- A) 72, 20
- B) 8, 22
- C) 3, 27
- D) 9, 8

What number is missing from the following sequence?

96, 88, 80, 72, 64, _____, 48

- A) 55
- B) 58
- C) 59
- D) 56

XIII + IV =

- A) XIX
- B) XVI
- C) XVII
- D) X

Name: _____

Amanda and Hannah play on the same softball team. Amanda was lucky enough to get her favorite number on her jersey. She likes it because the sum of its two digits is 11. If you take Amanda's jersey number and reverse the digits, you would get Hannah's jersey number. Hannah has the smaller jersey number. It is 45 less than Amanda's. What could their jersey numbers be?

David made his own coin. On one side, he colored it green. On the other side, he colored it blue. Let's assume his coin is fair. Each time he tosses it there is a 50/50 chance of either color. If he tosses his coin two times, what is the chance that either one of the tosses will be blue and his other toss will be green?

Holly and Jacob are in a class where they are practicing handshakes. There's a total of seventeen people in the class. Each student has to shake hands with everyone in the class exactly once at the start of class and once at the end of class. What is the total number of handshakes?

A rectangle is fifteen and six-sevenths centimeters long. Its width is five and five-sixths centimeters. What is the perimeter of the rectangle?

Name: _____

Complete each pattern, using the same rule. Write what the rule is.

6, 36, 41, 246, 251, 1506, 1511, _____, _____, _____

3, 18, 23, 138, 143, 858, 863, _____, _____, _____

8, _____, _____, _____, _____, 1938

Find the missing numbers.

If

$1, 1 = 1$

$2, 2 = 4$

$3, 3 = 9$

$4, 4 = 16$

Then

$5, 5 = ?$

If

$5, 5 = 10$

$6, 6 = 12$

$7, 7 = 14$

$8, 8 = 16$

Then

$9, 9 = ?$

Name: _____

Connor decided to repaint his bedroom during Jump Out of Bed Month. It took two quarts of paint to paint $\frac{1}{4}$ of his room. At a cost of \$20.15 per gallon, how much will the paint cost for his whole room?

The high school is putting on a play entitled "Polar Bears and Penguins." An adult ticket to the play costs \$6. A student ticket is \$4. Alex paid \$86 for tickets to the play. He bought nine adult tickets. How many student tickets did he buy?

Hannah made a card for her parents to tell them she was sorry for not cleaning up the kitchen like she had promised. It took her 39 minutes to make the card and write what she wanted. If she started at 1:42 p.m., what time did she finish?

Name: _____

Who traveled the shortest distance?

Sarah took her electric scooter to the mall. It took her 15 minutes to get to the mall, and her average speed was 18 miles per hour.

Rose rode her bike for 45 minutes at an average speed of 13 miles per hour.

Peter walked at an average speed of 4.8 miles per hour for 3 hours and 30 minutes.

Anne and Wendy are playing games on their phones. Who spent the least amount of money?

Anne bought an avatar for 173 FunBucks. She also bought some stickers for 20 FunBucks.

Wendy bought a badge for her avatar for 40 PlayBucks.

1 US Dollar = 33 FunBucks

1 US Dollar = 6.6 PlayBucks

Which shape has the largest perimeter?

Each side of a hexagon is 84.5 cm.

Each side of a decagon is 3.5 m.

Each side of an octagon is 154.9 cm.

Each side of a heptagon is 6.5 m.

Each side of a pentagon is 4.3 m.

Each side of a triangle is 543.1 cm.

Amanda and Hannah each wrote games for their phones, and the games are taking off!

After the first day, Amanda's game had 6,000 users. On day 2 she had 16,500 users. On day 3 she had 27,000 users. On day 4 she had 37,500 users.

After the first day, Amanda's game had 7 users. On day 2 she had 14 users. On day 3 she had 28 users. On day 4 she had 56 users.

If these patterns continue, whose game will have the most users on day 9?

Name: _____

CHALLENGE YOUR CLASSMATES!

(OR SIBLING OR PARENT)

**Play against
someone!**

Go to:

edhelper.com/math-games.htm**Pick your
grade. Then play
to challenge
someone else.**

Date played:

Whom I challenged:

Who won?

Explain what you learned from one math problem you got wrong.

**YOU
WIN!**

$$\begin{array}{r} 16 \\ \times 19 \\ \hline \end{array}$$

$$\begin{array}{r} 46 \\ \times 56 \\ \hline \end{array}$$

$$\begin{array}{r} 35 \\ \times 9 \\ \hline \end{array}$$

Name: _____

Amy rode her bike for 30 minutes. She went 4.35 miles. What is her speed in miles per hour?

Zeeka has invented a new space vehicle to go from his home planet of Zomba to his friend's planet of Oomba. It is a fun ride! It can fly at a speed of 540 mph. How far will it go in 30 minutes?

Name: _____

<p>David flew home for Christmas. His flight was 2 hours and 12 minutes. The flight landed in Jacksonville at 5:40 p.m. It took him 37 minutes to drive to the airport, and he was an hour and 19 minutes early for his flight. At what time did he leave his house?</p>	<p>A total of 90 jars of mustard were divided into 10 boxes. In each box, there were 5 jars of Dijon mustard. The rest of the jars contained yellow mustard. How many jars of yellow mustard were there in all?</p>	<p>Amy walked to the store in 15.3 minutes. She bought Band-Aids for \$0.55, gauze for \$1.29, and suntan lotion for \$2.89. She gave the clerk a \$10 bill. She left the store at 3:45 a.m. It took her 19 minutes to walk home. How much longer did it take her to walk home than it took to walk to the store?</p>
<p>Adam bought 2 books about mules. He received \$4.07 back in coins. He has 10 quarters, half as many dimes as quarters, 3 times as many nickels as dimes, and the rest are pennies. How many of each coin does he have?</p>	<p>If you placed three British 10-penny coins together in a triangular pattern, what would the distance be from the center of one coin to the center of another? A 1969 British 10-penny coin has a diameter of about 2.8 cm.</p>	<p>Mr. Martin bought 4 cases of sour licorice for his candy shop. The cost was \$107.95 per case. There are 12 boxes in a case and 6 bags in a box. What was Mr. Martin's cost per bag?</p>

Name: _____

The Bigtown football team outscored its opponents 5:3 last season. If their opponents scored 34 points, how many points did Bigtown score?

David's go-kart travels at a maximum speed of 38 kilometers per hour. How far can it go in 19 seconds? Round your answer to the nearest hundredth.

Jason hit a home run that went 328 feet on Saturday. On Monday, he hit one that went 300 feet. The distance of the second home run was what percent of the first home run? Round your answer to the nearest whole number.

Near the end of the Ordovician period (about 430 million years ago), the Earth's sea level is thought to have been about 400 feet above the current sea level. If the Earth's current sea level rose by 20 feet, what would the difference in sea level be, compared to the sea level near the end of the Ordovician period?

A 500-gram package of growth powder made by Z-Globe contains 0.03% yeast extract by mass. What fraction of the powder is not yeast extract?

One-third of the class grew peas, one-third grew carrots, and one-third grew beans. The class consisted of 63 students of which four-sevenths were girls. The teacher chose the three groups to be as equal in their boy-girl composition as possible. How many boys and girls were assigned to each team?

What is the probability of choosing a heart from a standard deck of 52 randomly arranged playing cards?

One-fifth of the students in James' class in Perth are immigrants. If there are thirty-five people in the class, how many students are not immigrants?

Name: _____

The magnetic field of the Earth reverses polarity every 100,000 to 1,000,000 years. What would the minimum expected number of polarity reversals be after a period of 603 million years?











David collects aluminum cans and takes them to the recycling center every week. He put recycling boxes in all the classrooms, the cafeteria, and the teachers' lounge. He put a sign on each box asking people not to put anything but aluminum cans in them. Every week, though, David finds objects other than aluminum cans in the recycling boxes. He estimates that fifteen percent of the weight of the material in the boxes is non-recyclable junk. The total weight of all the items collected in the recycling boxes this week was one hundred sixty-seven pounds. What was the weight of the aluminum cans, rounded to the nearest tenth pound?

With the help of Mr. Bloop, some middle school students measured the growth rate of a fungus. An old fashioned (but still useful) apparatus called a race tube was used. A small piece of the fungus was placed at one end of a long tube that had a layer of growth medium filling it about half way. Then the distance the fungus grew down the tube was measured each day. At the end of two weeks the fungus had advanced 36 cm along the tube. What was the average speed of advance of the fungus in m/s? Express your answer using scientific notation.

Erin is monitoring the aircraft that fly over her house on their way to land at the local airport. Over the course of the week she counted 26 two-engine jets, 14 propeller driven planes, and 18 four-engine jets. Based on her data, what is the probability that the next aircraft to fly over will be a propeller driven plane?

Name: _____


Puzzle:


			5	1,890
				1,512
		5	5	300
	5	5	5	1,125
3,402	420	900	750	X


Work Area:


			5	1,890
				1,512
		5	5	300
	5	5	5	1,125
3,402	420	900	750	X

The product for each column and row is given. Blanks use numbers 2 to 9 only.

















 = _____

 = _____

 = _____

 = _____


Puzzle:


				945
				840
				540
				480
360	980	972	600	X

Work Area:


				945
				840
				540
				480
360	980	972	600	X


The product for each column and row is given. Blanks use numbers 2 to 9 only.


 = _____

 = _____

 = _____

 = _____

 = _____

 = _____

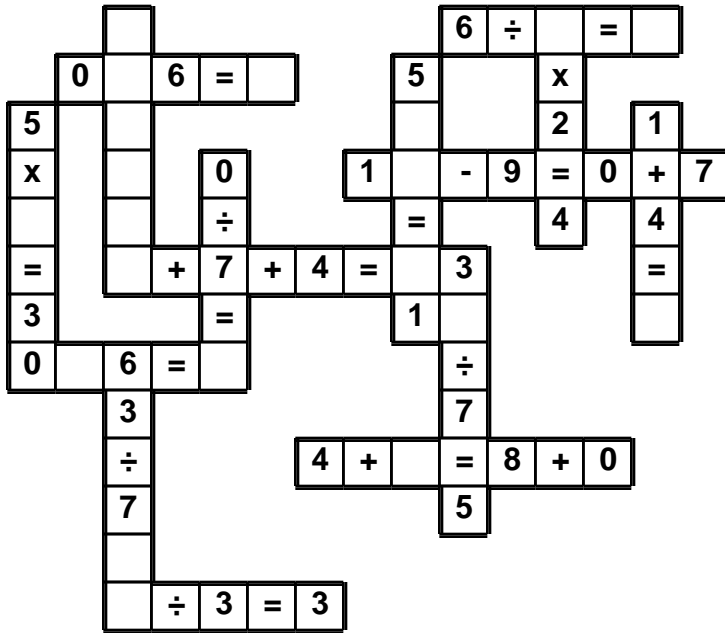
[illegible]

	$6\frac{1}{6}$	$2\frac{7}{9}$		
				$10\frac{7}{9}$
	$15\frac{2}{9}$		$16\frac{1}{3}$	

Name: _____

7 • 2 • 3 • + • 6 • 5 • + • = • 6 • 6 • 1 • 2 • 1 • 5 • 5 • ÷ • 0
 4 • = • 9

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



$$14n = 84$$

$$\frac{40}{N} = 8$$

$$2y = 8$$

$$|75| - |-50| =$$

$$5 \times 5 \times 5 \times 5 = 5^x$$

What is the value of x?

$$9 \times 3 - 6 - 3 + 9$$

Name _____



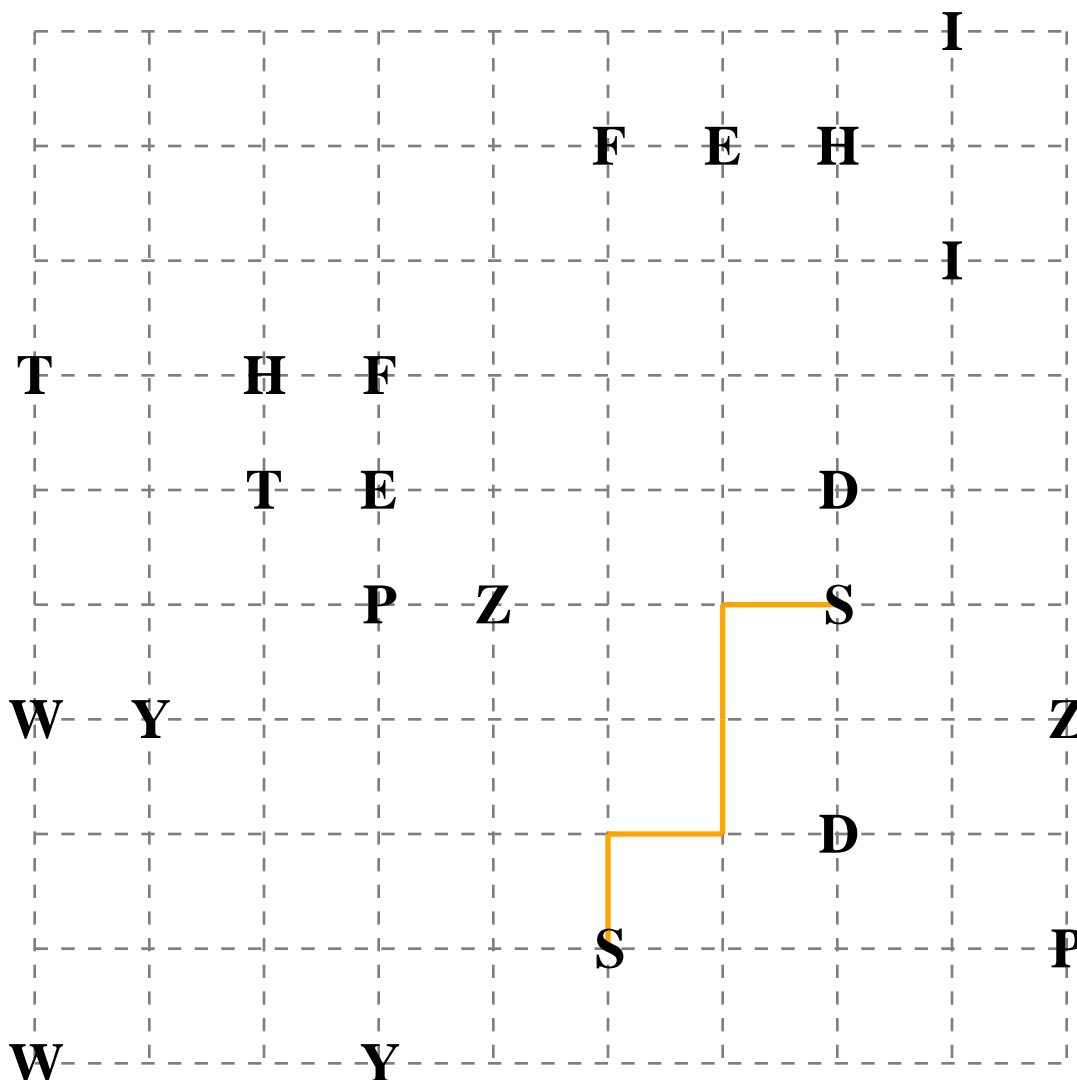
Date _____

Letters Kissing

Each of the letters needs to kiss the same letter.

Draw a line that connects one letter to one other letter to kiss. Draw your lines over the trace lines. No lines may cross. Once you draw a line to a letter, that letter cannot be used again.

One complete line has already been drawn for you.



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: 18.4, 29.2, or 25.6. The other three numbers have to all be DIFFERENT and must be from these: 1.8, 9.6, 2.2, 4.2, 0.7, 6.8, or 5.2.

	29.2			6.8		
		even			either 6.8 or 9.6	
4.2	39.3	0.7	26.1	5.2		47.4
		either 5.2 or 2.2		less than 2.2		greater than 1.8
	5.2		1.8		18.4	
						odd
	46.2		45.8		37.4	45.2
less than 6.8		greater than 18.4		less than 9.6	greater than 4.2	either 4.2 or 6.8
		odd			even	greater than 0.7
	34		30.9		32.3	39.2
even		even		even		odd
	greater than 0.7		less than 5.2		odd	odd
	43		44.2		36.6	49.8
odd		even		either 9.6 or 6.8	greater than 1.8	less than 29.2
	greater than 2.2		odd			odd
	32.2		33.8			
either 5.2 or 18.4		odd		even	odd	even
	less than 29.2			even		either 9.6 or 2.2

Name: _____

Fill in the blanks with $>$, $=$, or the $<$ sign.

$$4,500,000 \quad \underline{\hspace{1cm}} \quad -55,000$$

$$-7 \quad \underline{\hspace{1cm}} \quad -21$$

$$-660,000 \quad \underline{\hspace{1cm}} \quad 10,700$$

$$3 \quad \underline{\hspace{1cm}} \quad -18$$

The area of a square is 68.89 square inches. What is its perimeter?

The (make-believe) country of Slowmonia is always super slow. But they are hard working, and after 19 years of research, the country of Slowmonia launched a rocket into space to land on Pluto. It is slow! It travels 3.342 kilometers in a month. How far will it travel in 80 years?

Name: _____

		+		-		=	
+	B	A	A				11
+	C	A	A				6
+	C	C	?				5
=							
	23	20	21				

Equations and Hints:

Each letter is a whole number.

Fill in the equations using the chart:

$$A + A + C = 20 \quad B + \underline{\quad} + C = 23 \quad \underline{\quad} + \underline{\quad} - \underline{\quad} = 6$$

$$\underline{\quad} + \underline{\quad} - \underline{\quad} = 11$$

Additional hints:

$$B = C + 5 \quad C < 10$$

Show Work:**Solve:**

$$? = \underline{\quad}$$

Name: _____

Fill in each box of the edHelperKu puzzle, using the numbers from 1 to 6.

Every row must contain the numbers 1, 2, 3, 4, 5, and 6.

Every column must contain the numbers 1, 2, 3, 4, 5, and 6.

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.

10+	5-	14+	9+		7+
		6			
	1-	9+	7+	10+	
6				4	10+
3-	9+		3-	7+	
		2			6

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

$$\underline{\quad} + \underline{\quad} + 4 = 7$$

$$\underline{\quad} + 4 = 9$$

$$6 + \underline{\quad} = 10$$

$$2 + \underline{\quad} = 7$$

$$\underline{\quad} + 6 + \underline{\quad} = 14$$

$$\underline{\quad} + 1 + \underline{\quad} = 9$$

$$\underline{\quad} - 1 = 5$$

$$\underline{\quad} + 5 + \underline{\quad} = 9$$

Name: _____

Complete each pattern. Write what the rule is.

9	63	441	3,087	21,609	151,263
6	18		162	486	1,458
7	42	252	1,512	9,072	
8	40		1,000	5,000	

Complete each pattern. Write what the rule is. Hint: Look for alternating sequences.

Every third number is the greatest common factor.

11, 18, 1, 22, 30, 2, 33, 42, 3, 44,

54, 2, 55, 66, 11, 66, 78, 6, _____, _____

55, 15, 5, 66, 27, 3, 77, 39, 1, 88,

51, 1, 99, 63, 9, 110, 75, _____, _____, _____

Name: _____

A train carrying coal took 7 hours and 20 minutes to travel from Chicago to Detroit. A passenger train started from Chicago and reached Detroit in 5 hours and 16 minutes. The passenger train was traveling at an average rate of speed that was sixteen mph more than the coal train. How fast was each train traveling?

Connor has 7 liters of 50% acid. How much water should he add to make a solution that is 35% acid?

A mixture of 12% vegetable broth and 88% water is to be used in making a soup. How much water should be added to 3 liters of vegetable broth to make the mixture?

If Danielle's age is forty less than seven times her age four years ago, she will be sixteen years older than her current age. How old is Danielle?

At EdHelper Coffee, one kind of coffee sells for \$1.50 a cup and another sells for \$3 a cup. How much of each coffee should be used to make 8 cups of a coffee mixture which sells for \$2.25 a cup?

Kyle and Destiny worked as plumbers for \$30 and \$39 per hour, respectively. In August, Kyle worked sixteen hours less than Destiny. If their total income for August was \$10,008, how many hours did Destiny work?



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