

Name: _____

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

A

51	33	53
11	61	38
36	69	88
12	43	67

Find an
addition fact.

B

40	27	61
60	86	94
69	14	19
48	18	45

Find an
addition fact.

C

64	98	51
84	2	31
73	56	38
88	12	54

Find an
addition fact.

Equations:

Write the equation facts you found.

A	33	+	36	=	69
B	27	+		=	
C		+	2	=	

$18 \div 6 = \underline{\hspace{2cm}}$	$12 \times 7 =$	Rewrite these in increasing order of length: 967 cm, 3 dm, 638 m, 646 km
	$54 \div 9 =$	
$8 \text{ kg} = \underline{\hspace{2cm}} \text{ g}$	$4 \times 8 = \underline{\hspace{2cm}}$	Anne rolls a die. What is the chance of her rolling a 3? _____

word root **im** can mean **not**

imperfect, impossible

Name: _____

40.7	+21.2		+9.9				-38.7		+49
				-4			-1.3		
									-39.2
				-7.3			+19.4		
	+12.5		-19						-29.5
+2.8							+6		
									-16
+5							-26.6		+67.4
	-3.1		-8	50.7	+34			75.2	

Alex took three numbers greater than 1 and multiplied them. One number was four and the other number was sixteen. Of course, he forgot the last number, but he remembered the product was 241. Is this possible?

1 cm = 10 mm
20 cm = _____ mm

25
+ 45

244
+ 498

Name: _____

Only use a pencil to write the numbers on the blank lines. You do not need any scrap paper! Solve it in your head. If you forget a number, then start over. Cool, huh?

Mental Math



= Do it
in your
head!

imagine 9 in your head

add 1

subtract 9

Write the number.

_____ **A**

imagine 7 in your head

multiply 12

double it

subtract 8

subtract 9

Write the ones digit.

_____ **B**

imagine 5 in your head

multiply 11

double it

subtract 9

add 8

Write the ones digit.

_____ **C**

imagine 3 in your head

multiply 11

double it

add 3

add 7

subtract 9

Write the even digit in your answer.

_____ **D**

What is the sum?

A + B + C + D

Wow! Great job! That's the answer, but do you know how to SPELL the number?

_____ **e** **e** _____

7 before 16 _____

9 after 18 _____

2 after 12 _____

1 before 14 _____

4 after 17 _____

3 after 15 _____

3 before 18 _____

5 after 13 _____

6 after 11 _____

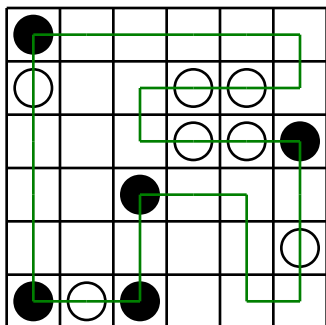
Name: _____

<p>Rose used masking tape to make a hopscotch outline on the floor of the playroom. She taped the full length and width of each of 12 squares. If she used 17 yards of masking tape, what were the measurements of each square?</p>	<p>Rosa crocheted a tablecloth for her parents for Parent's Day. She worked $1\frac{1}{3}$ hours each day for five days to make the tablecloth. How many hours did she work in all?</p>	<p>Jacob likes chocolate ice cream. Yesterday he went to the store and bought two and three-fourths gallons of chocolate chip ice cream and one and a half gallons of chocolate ice cream. Ice cream costs \$3.46 per half-gallon. How much did Jacob pay?</p>
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<p>How many centimeters are in 60 millimeters?</p> <p>_____ centimeters</p>	<p>Write an equation to represent this:</p> <p>The sum of nine and five is fourteen.</p> <p>_____</p>
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<p>17% of 100 is 17. 17% of 200 is 34. 17% of 500 is 85.</p> <p>What is 17% of 900?</p>	<p>$7,782 + 9,281 =$ _____</p>	$\begin{array}{r} 45 \\ - 15 \\ \hline \end{array}$
	<p>$3 \times 12 =$ _____</p>	$\begin{array}{r} 576 \\ - 167 \\ \hline \end{array}$

<p>$17,544 + 21,143 =$ _____</p>	<p>In the number 970,942, the digit 0 is in what place?</p> <p>_____</p>
<p>$22 \div 11 =$ _____</p>	



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.

●		○	●		
○			○		
●	○	●		○	●
			○	○	

A 5x5 grid with black and white circles and a green path. The grid is as follows:

Black	White			
			White	
Black	White		White	Black

A green path starts at the Black circle in row 4, column 1, moves right to the White circle in row 4, column 2, and then continues horizontally to the right edge of the grid.

$$5 \times 8 = \underline{\hspace{2cm}}$$

$4 \times 8 = \underline{\hspace{2cm}}$

$6 \times 11 =$

ABBBHABBBHABBBHABB...

What letter will be the 35th term in the pattern?

$$88 \div 8 = \underline{\hspace{2cm}}$$

$9 \times 4 = \underline{\hspace{2cm}}$

Name: _____

$352 - 293 =$ _____	$20 \div 10 =$ _____	$10 \times 10 =$ _____
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<p>Jessica and Mary are playing a number game. Jessica says 5. Mary replies that the answer is 20. Jessica says 9. Mary replies that the answer is 36. Jessica says 6. Mary replies that the answer is 24. Jessica says 16. Mary replies that the answer is 64. Jessica says 2. Mary is thinking. What number should Mary reply with?</p>	<p>Circle the smallest number:</p> <p>129,800 75,634 517,340,564,718 8,269</p>
	<p>$5 \times 10 =$ _____</p>

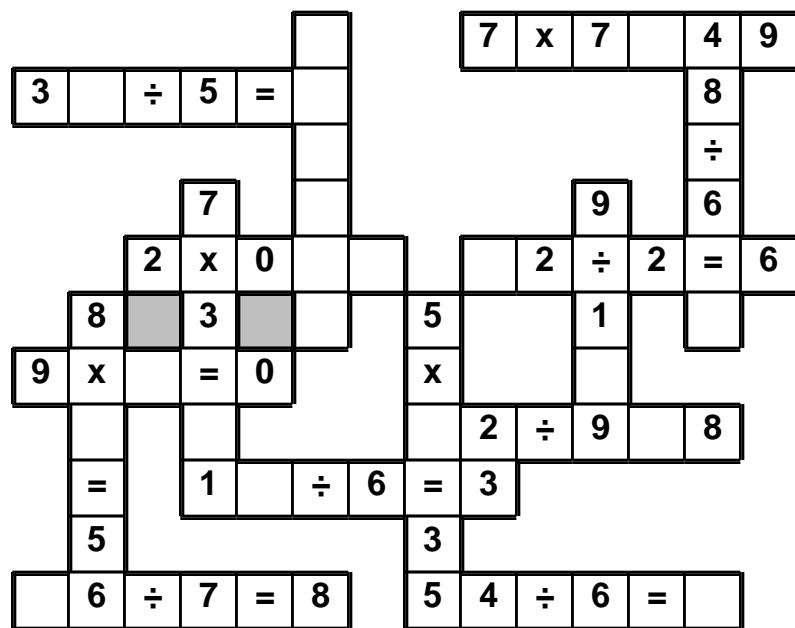
$30 \div 6 =$ _____	$12 \times 2 =$ _____	<p>What number is halfway between 5 and 20?</p>

<p>Can 804 be evenly divided by 4? Circle:</p> <p>804 is evenly divisible by 4 804 is NOT evenly divisible by 4</p>	<p>Three girls ran a race. Wendy was not as fast as Rose. Rose ran past Jessica in the race and Jessica never caught up. Who won the race? Do you have enough information to know?</p>
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<p>Circle the greatest number:</p> <p>12,607 59,348,534,681 9,270,268 182,560,493</p>	$3 \times 5 =$ _____	$30 \div 5 =$ _____

$852 - 696 =$ _____	$42 \div 6 =$ _____	$48 \div 4 =$ _____
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Use the pieces above to help you fill in the runaway math puzzle.



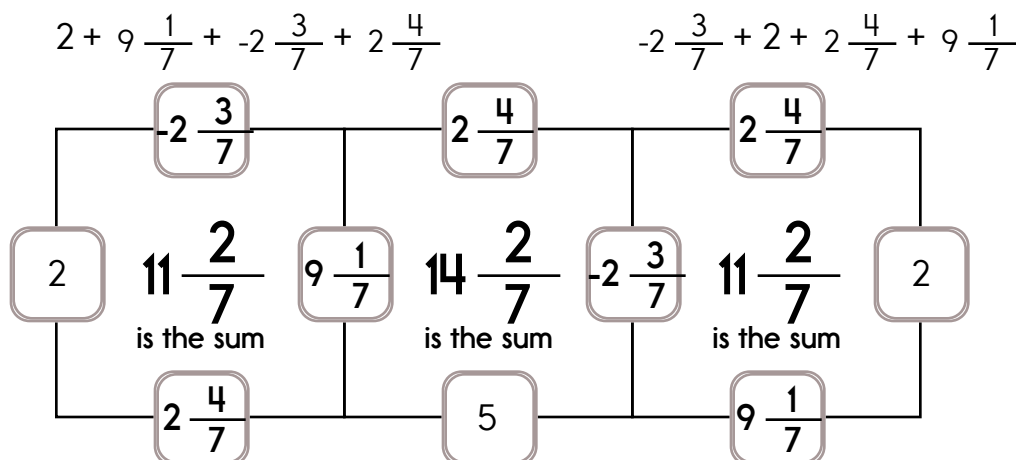
Jenna is thinking of a palindrome number.
The digits, 28, are a part of the number in this exact order.
The number is less than 9,000.
The number is greater than 8,000.
The number has 4 digits.
The sum of the first three digits in the number is 12.
What is her number?

$$64 \div 8 = \underline{\hspace{2cm}}$$

Name: _____

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

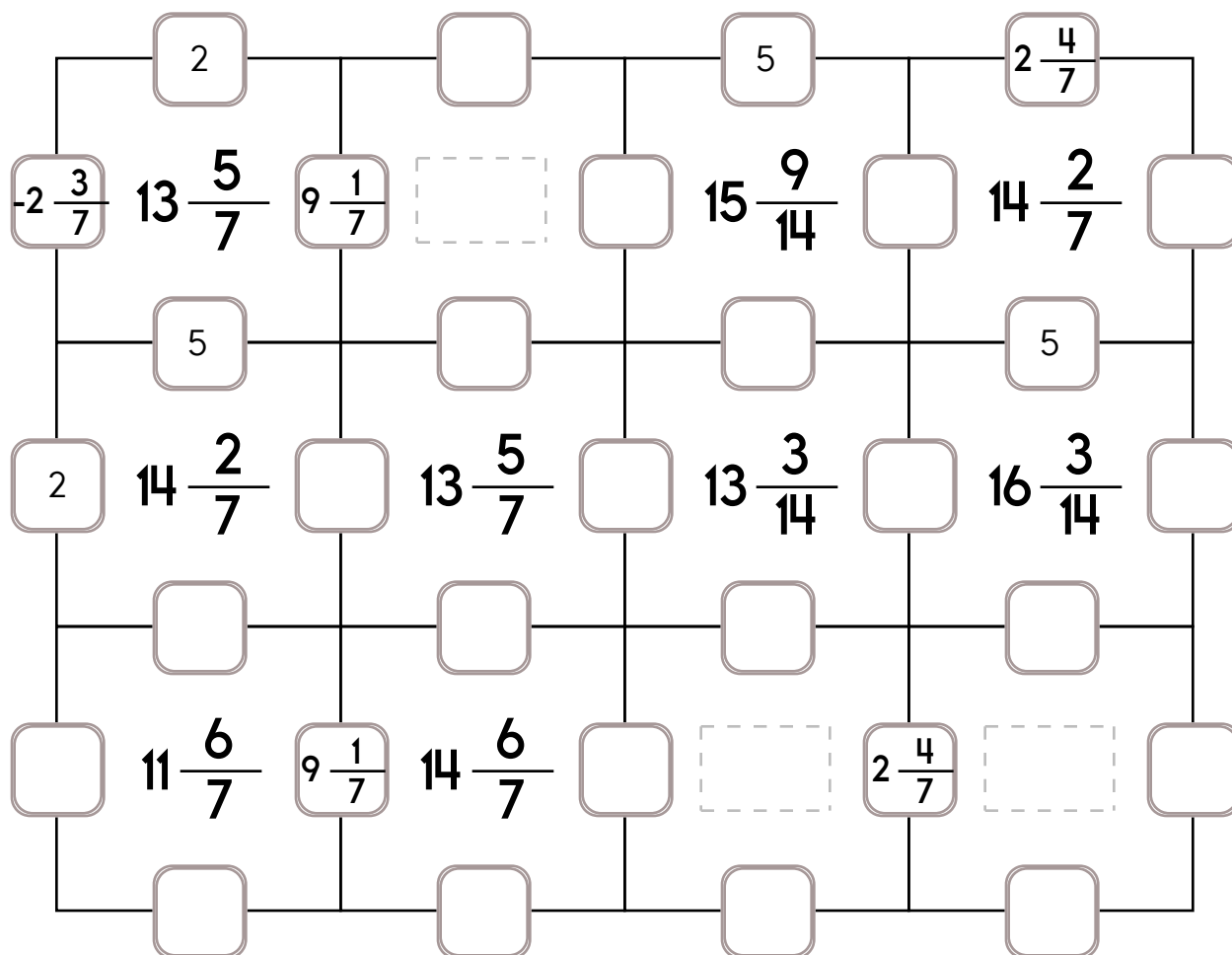
Sample:



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

The other three numbers have to all be DIFFERENT and must be from these: $9\frac{1}{7}$, $2\frac{4}{7}$, 2, or 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: $-3\frac{1}{2}$, $-\frac{1}{3}$, or $-3\frac{3}{4}$.

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

The grid is a 6x6 array of squares. Each square contains a number or a fraction, or is empty. The numbers are arranged in a way that allows for a logical deduction of the missing values.

4	$13\frac{2}{3}$	7	$14\frac{1}{6}$			$10\frac{1}{6}$	$3\frac{1}{2}$
	3						
	$13\frac{1}{6}$		$6\frac{3}{4}$	$-3\frac{3}{4}$	$10\frac{1}{4}$	$10\frac{1}{6}$	
	$14\frac{1}{6}$		$13\frac{1}{6}$	10		10	
	$10\frac{1}{6}$		$13\frac{1}{6}$	$10\frac{1}{4}$		$6\frac{3}{4}$	
	$10\frac{3}{4}$		10				

Name: _____

$$\begin{array}{r} 62,520 \\ - \quad 58 \\ \hline \end{array}$$

$$\begin{array}{r} 740 \\ + \quad 45 \\ \hline \end{array}$$

$$\begin{array}{r} 468,905 \\ - 401,410 \\ \hline \end{array}$$

Write the reciprocal.
18

Write the reciprocal.

$$\frac{10}{14}$$

Write the reciprocal.

$$\frac{4}{6}$$

$$\begin{array}{r} 6.73 \\ \times 8.4 \\ \hline \end{array}$$

$$\begin{array}{r} 5.8 \\ \times 58.49 \\ \hline \end{array}$$

$$\begin{array}{r} 5.423 \\ - 1.38 \\ \hline \end{array}$$

$$\begin{array}{r} 52,317.6 \\ 77,617 \\ 67,235 \\ + 58,417 \\ \hline \end{array}$$

Rewrite as a vertical equation and solve.
 $19.6 - 3.9 =$

Change $\frac{2}{8}$ to a decimal.

$$16.68 \times 10 =$$

$$\begin{array}{r} 18.6 \\ + 10.83 \\ \hline \end{array}$$

Write the decimal number for:
three hundred forty-six
and twenty-six
ten-thousandths

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Cross off the number that does NOT belong.

$$4, 3\frac{12}{16}, 3\frac{8}{16}, 3\frac{4}{16}, 3, 2\frac{12}{16}, 2\frac{8}{16}, 2\frac{4}{16}, 2,$$

$$1\frac{12}{16}, 1\frac{8}{16}, 1\frac{5}{16}, 1\frac{4}{16}, 1, \frac{12}{16}, \frac{8}{16}, \frac{4}{16}$$

Why does _____ not belong in the pattern?

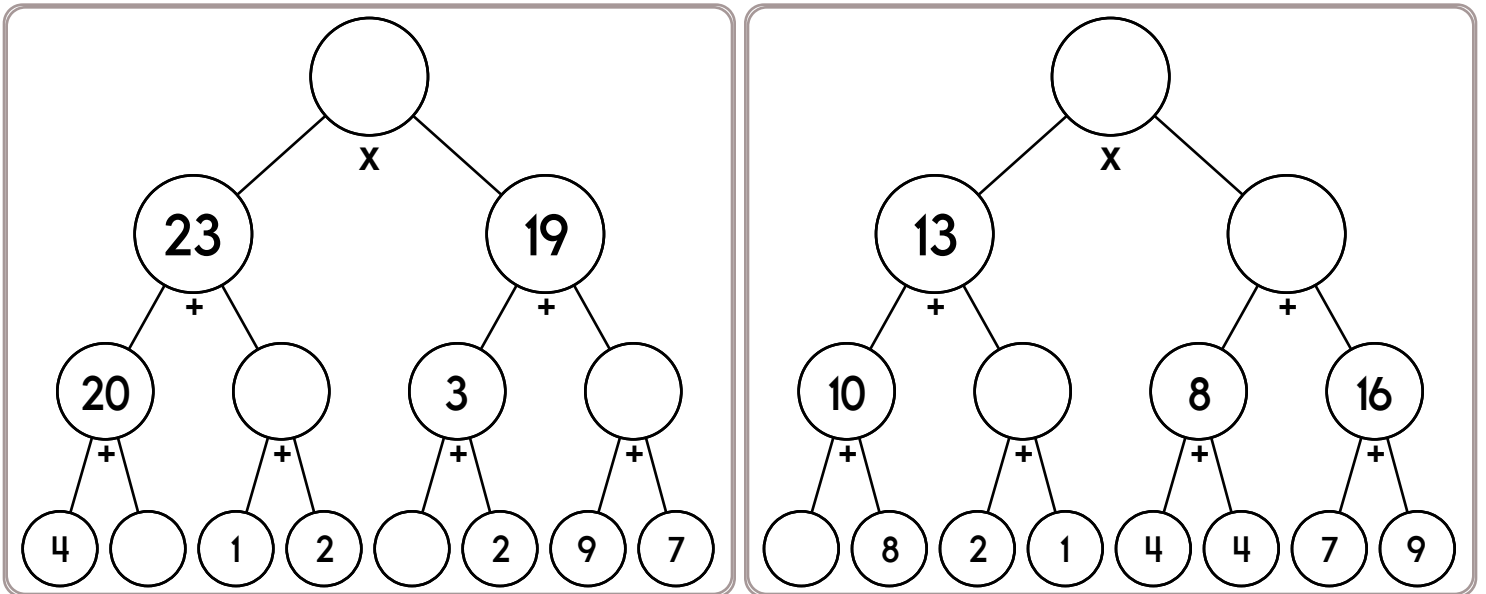
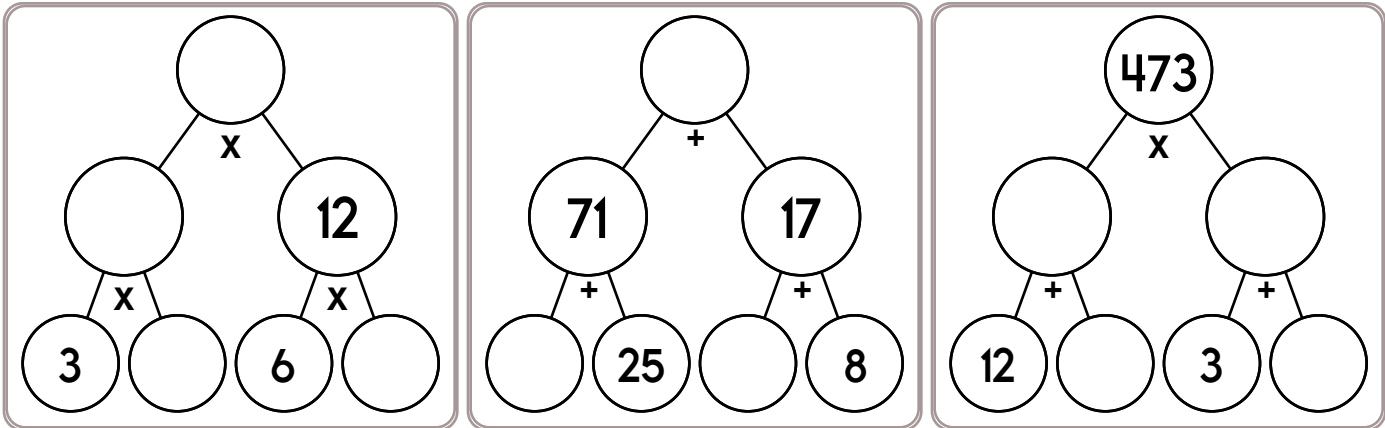
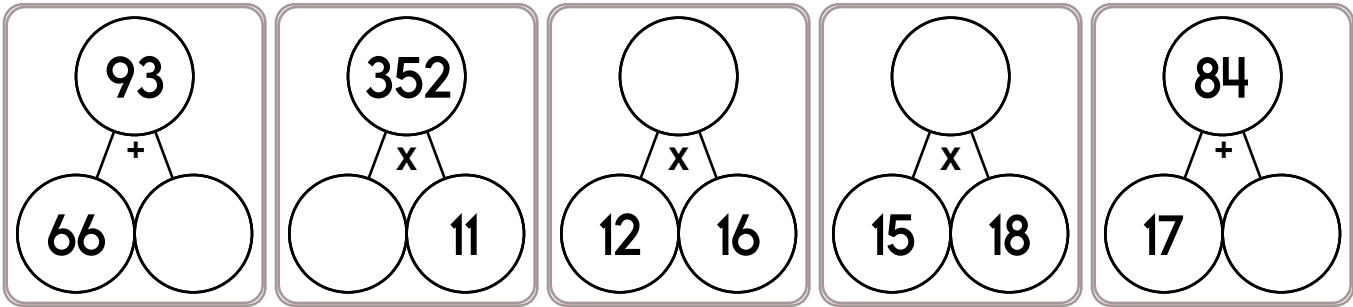
Cross off the number that does NOT belong. Hint: Look for alternating sequences. Every third number is the greatest common factor.

$$20, 19, 1, 25, 23, 1, 29, 30, 27, 3, 35,$$

$$31, 1, 40, 35, 5, 45, 39, 3, 50, 43$$

Why does _____ not belong in the pattern?

Name: _____



$$3 \overline{)10.8}$$

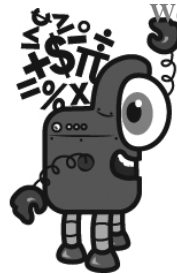
Change $\frac{8}{20}$ to a decimal.

$$\begin{array}{r} 6.2 \\ \times 2 \\ \hline \end{array}$$

Name: _____

Only use a pencil to write the numbers on the blank lines. You do not need any scrap paper! Solve it in your head. If you forget a number, then start over. Cool, huh?

Mental Math



= Do it
in your
head!

imagine 8 in your head

double it

subtract 9

Write the number.

_____ **A**

imagine 9 in your head

double it

subtract 8

add 5

add 2

Add the tens digit to the ones digit.
Write the sum.

_____ **B**

imagine 8 in your head

double it

subtract 9

subtract 5

add 1

add 4

Write the number.

_____ **C**

imagine 2 in your head

add 9

multiply 3

double it

Write the tens digit.

_____ **D**

What is the sum?

A + B + C + D

Wow! Great job! That's the answer, but do you know how to SPELL the number?

_____ n _____ - _____ g h _____

4 before 15 _____

6 after 18 _____

7 before 12 _____

1 before 18 _____

9 after 17 _____

5 before 11 _____

2 before 19 _____

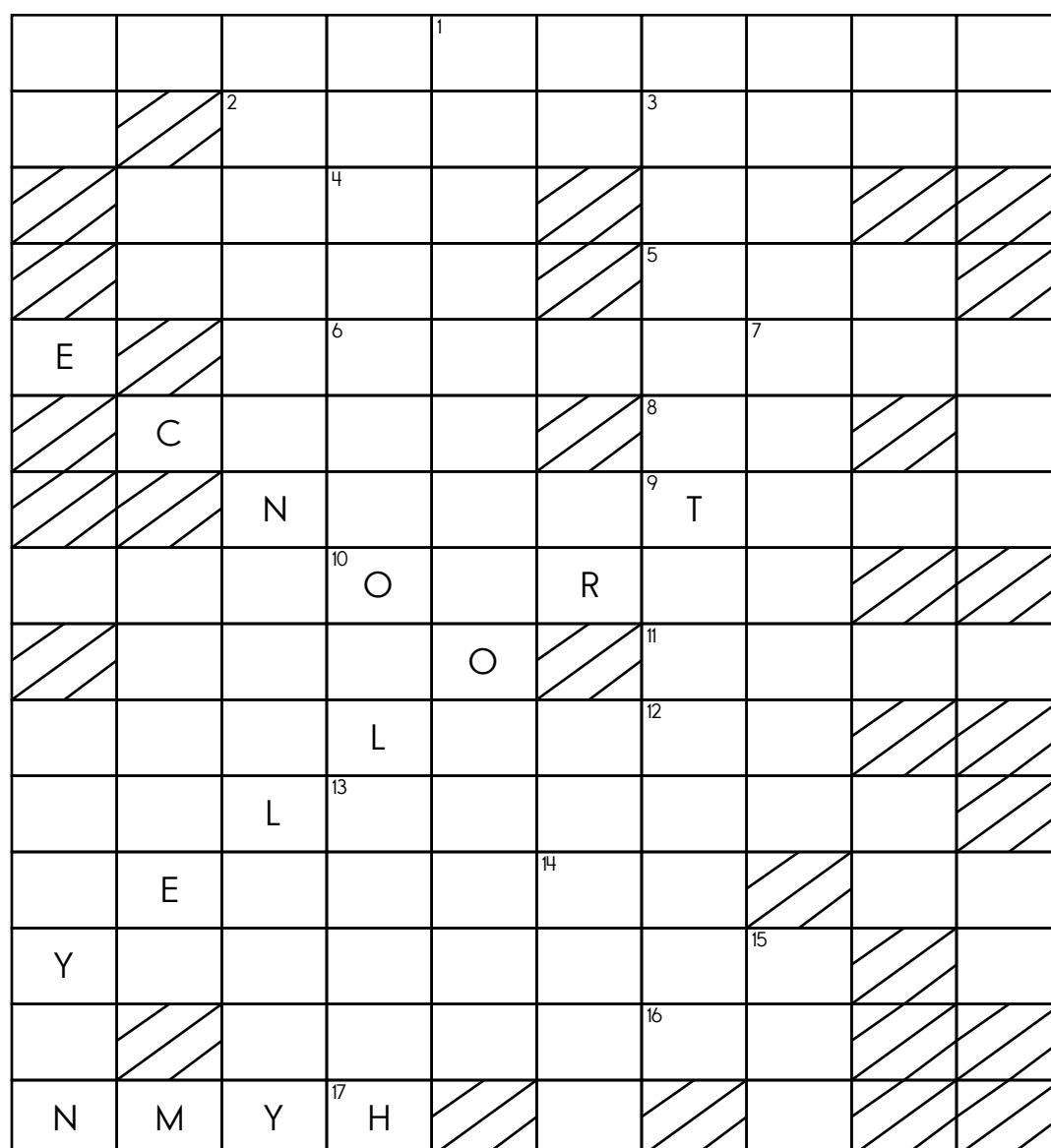
4 after 14 _____

9 before 17 _____

Name: _____

Each of the words below starts on the number shown. A word can go up, down, left (backwards), right, or in any of the diagonal directions starting from the numbered box.

- | | | | |
|---|-------------------------------|---------------------------|------------------|
| 1. SKIED
SUBWAY
SEPARATION
SPIRIT
SOLVE | 5. IMAGINE | 10. OBEY
ONCE
OILY | 14. DUET
DENY |
| 2. BLIND | 6. SOLO
SILO | 11. POEM
POET
PIQUE | 15. WIT |
| 3. ABILITY
ACRE
AXLE | 7. ZERO | 12. HUMAN
HALO | 16. REIN |
| 4. LOSE | 8. IMITATE | 13. ALTO
ACHE | 17. HYMN |
| | 9. TROLLEY
TYPHOID
TRIO | | |





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\times
 $\times =$
 $- \div$
 $< - >$

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