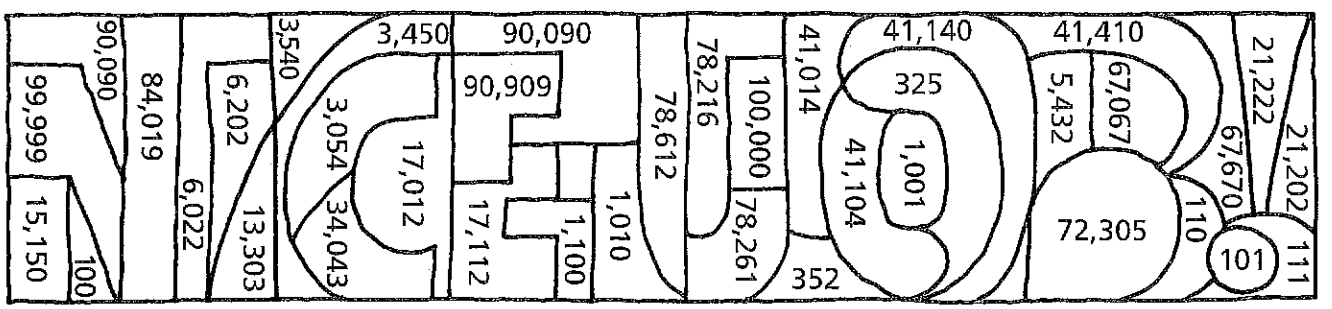
Name _____

A Hidden Message

Write the numeral for each number word.
Then color the section of the design that matches your answer.

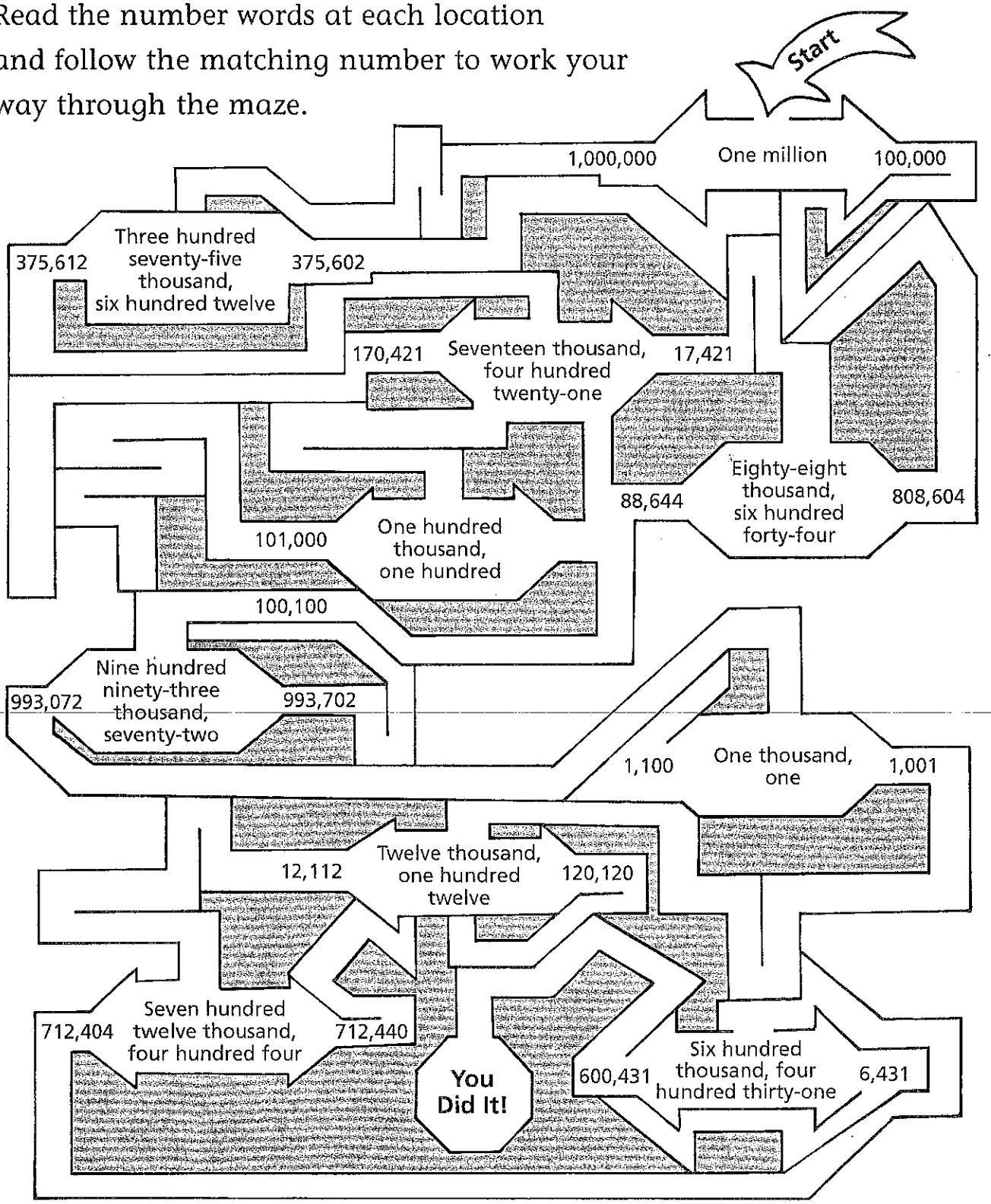
1. Seventy-two thousand, three hundred five _____
2. One hundred thousand _____
3. Ninety thousand, nine hundred nine _____
4. Twenty-one thousand, two hundred twenty-two _____
5. Three thousand, fifty-four _____
6. Seventeen thousand, one hundred twelve _____
7. Three hundred twenty-five _____
8. Sixty-seven thousand, sixty-seven _____
9. Forty-one thousand, one hundred four _____
10. Ninety-nine thousand, nine hundred ninety-nine _____
11. Six thousand, two hundred two _____
12. Eighty-four thousand, nineteen _____
13. Thirteen thousand, three hundred three _____
14. One hundred one _____
15. Thirty-four thousand, forty-three _____
16. Fifteen thousand, one hundred fifty _____
17. Seventy-eight thousand, two hundred sixty-one _____
18. Five thousand, four hundred thirty-two _____



Name _____

Let the Numbers Be Your Guide

Read the number words at each location and follow the matching number to work your way through the maze.



Name _____

Works of Fiction

Write each number described.
Use the digits from the Number Box.
Use a digit only once in each number.

Number Box

1	3	5	6	8	9

S The largest number possible using all 6 digits _____

D The largest even 6-digit number possible _____

A The largest 6-digit number possible that has "1" in the hundred thousands place _____

M The smallest number possible that uses all 6 digits _____

B The largest number possible using only 4 of the digits _____

I The smallest even number possible using only 4 digits _____

E The largest 6-digit number possible with "9" in the ones place _____

O The largest number possible using only 3 of the digits and having "3" in the hundreds place _____

T The smallest 6-digit number possible with "9" in the hundred thousands place _____

N The smallest possible 3-digit number with "9" in the tens place _____

G The largest even 3-digit number with "9" in the hundreds place _____

Now find each number in the code
and write the letter of the exercise above it.

Be a Creative Thinker *by*

135,689	198,653	985,316	916	865,319		1,356	193	198,653	913,568	1,356	398	193

Training for the Olympics *by*

9,865	985,316	9,865	865,319	986,531	913,568

Name _____

A Riddle for You

Ring the letter of the number that will make a true number sentence. Some sentences may have more than one correct answer.

Nine hundred fifty-two > _____	**E** 987	**A** 949	**S** 953
Three hundred twenty-eight < _____	**F** 399	**Y** 328	**R** 400
Two hundred twelve = _____	**T** 120	**E** 112	**I** 212
One thousand > _____	**E** 999	**S** 1,000	**M** 1,001
Six hundred forty-two > _____	**O** 642	**N** 598	**I** 700
Fifty-seven < _____	**D** 60	**Y** 59	**E** 54
Eight hundred seventeen = _____	**N** 887	**G** 812	**O** 817
Three hundred thirty-four < _____	**E** 290	**U** 340	**C** 400
Seventy-six = _____	**E** 706	**A** 76	**O** 760
One hundred sixty-one > _____	**N** 116	**P** 161	**T** 600
Five hundred fifty-five < _____	**U** 549	**C** 560	**H** 525
Nineteen = _____	**O** 19	**N** 90	**E** 9
Four hundred seventy-seven < _____	**U** 480	**H** 470	**N** 500
Six hundred twenty-two > _____	**A** 692	**T** 612	**D** 624
Five hundred > _____	**R** 705	**O** 487	**N** 499

What would you get if you crossed a dog and a calculator?

Write the letters with a ring in order.

_____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____

_____ _____ _____ _____ _____ _____ _____

Name _____

Mystery Picture Puzzle

Compare each pair of numbers.

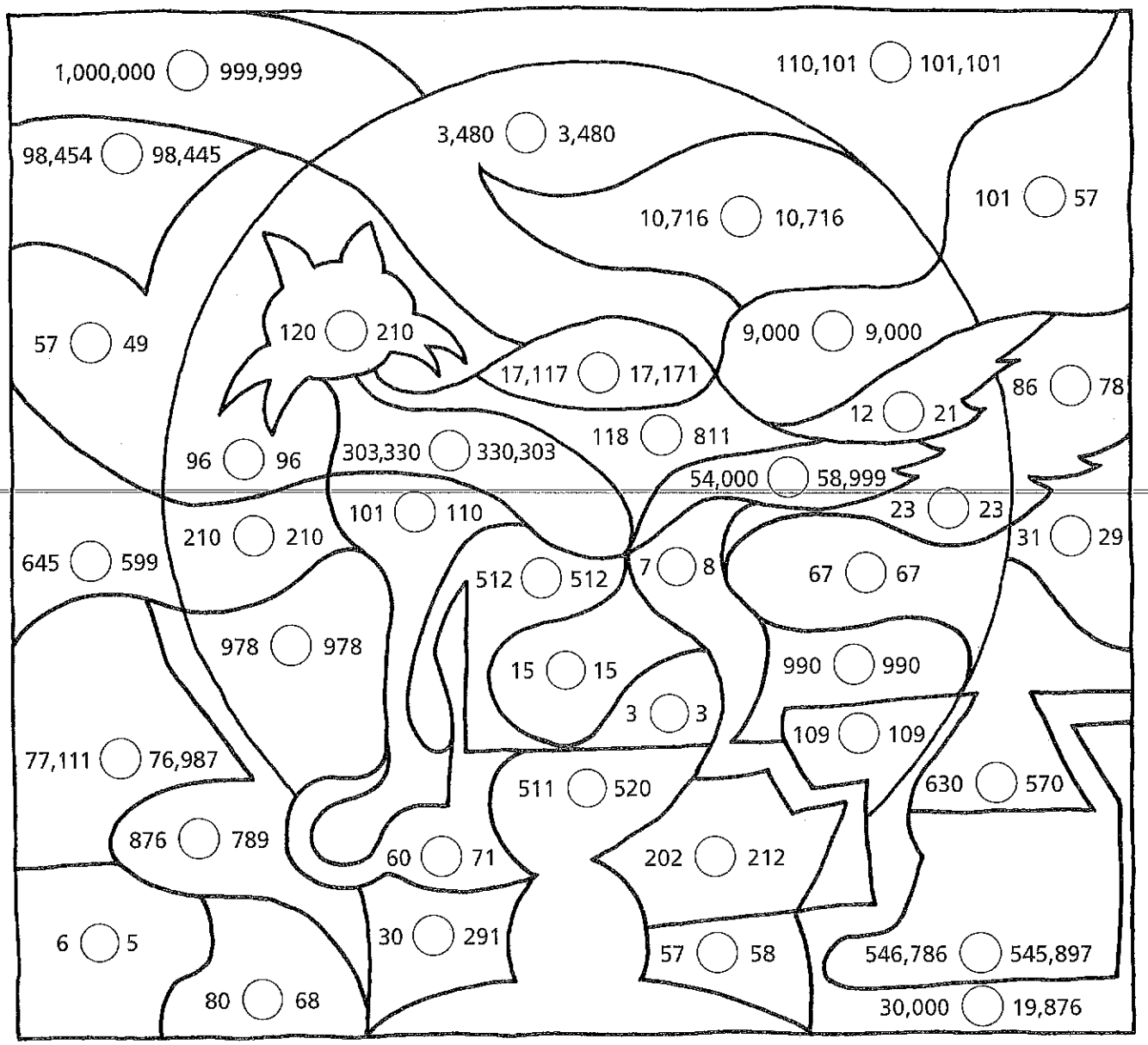
Use < for less than, > for greater than, or = for equal.

Then color each section this way.

< → Black

> → Blue

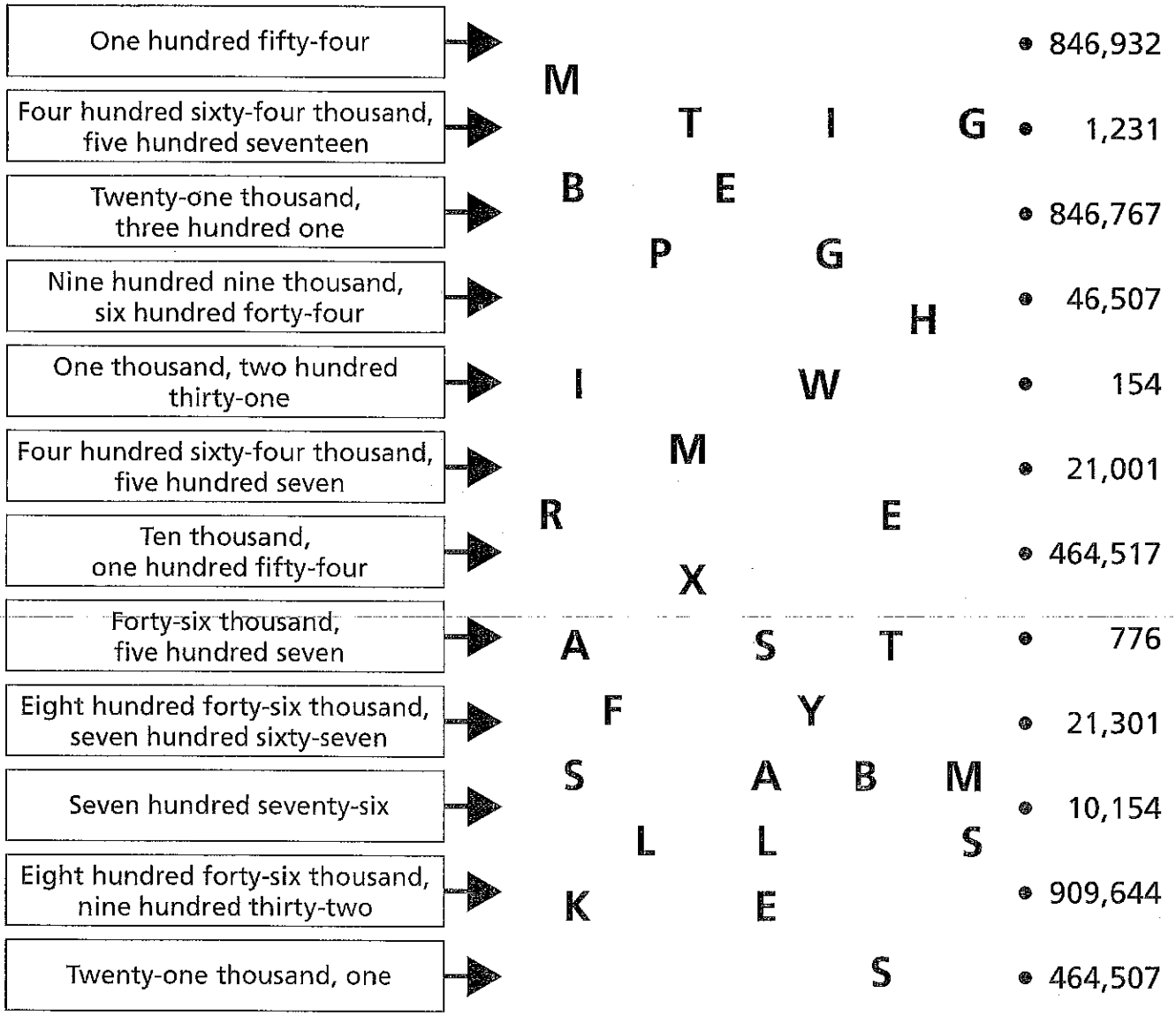
= → Yellow



Name _____

Math Class Riddle

Match number words with numerals. Using a ruler, draw a line from the tip of the arrow following the words to the dot in front of the matching numeral. Your lines will cross out letters. Write the letters that remain in order at the bottom of the page.



What did the math classroom have instead of desks?

_____

 Name _____

Where Do Books Sleep?

Write >, <, or = in each space to make a true sentence.
Ring the letter in the column that matches your choice.

		>	<	=
1. 5,003	5,037	I	U	A
2. 752,319	752,275	N	P	D
3. 67,841	68,239	S	D	A
4. 500,623	five hundred thousand, six hundred twenty-three	H	T	E
5. 867,625	667,863	R	E	M
6. 968	nine hundred eighty-six	L	T	K
7. 975,634	973,647	H	I	N
8. 180,950	108,985	E	N	B
9. 79,459	79,554	M	I	W
10. 90,050	90,070	A	R	L
11. 205,403	two hundred five thousand, four hundred three	D	O	C
12. 684,729	680,830	O	Y	N
13. eighty thousand, five hundred eighty-three	80,523	V	S	P
14. twenty-two thousand, five hundred eight	22,580	U	E	H
15. four hundred twenty-seven	427	E	A	R
16. seventy thousand, three hundred ninety-nine	70,399	L	E	S

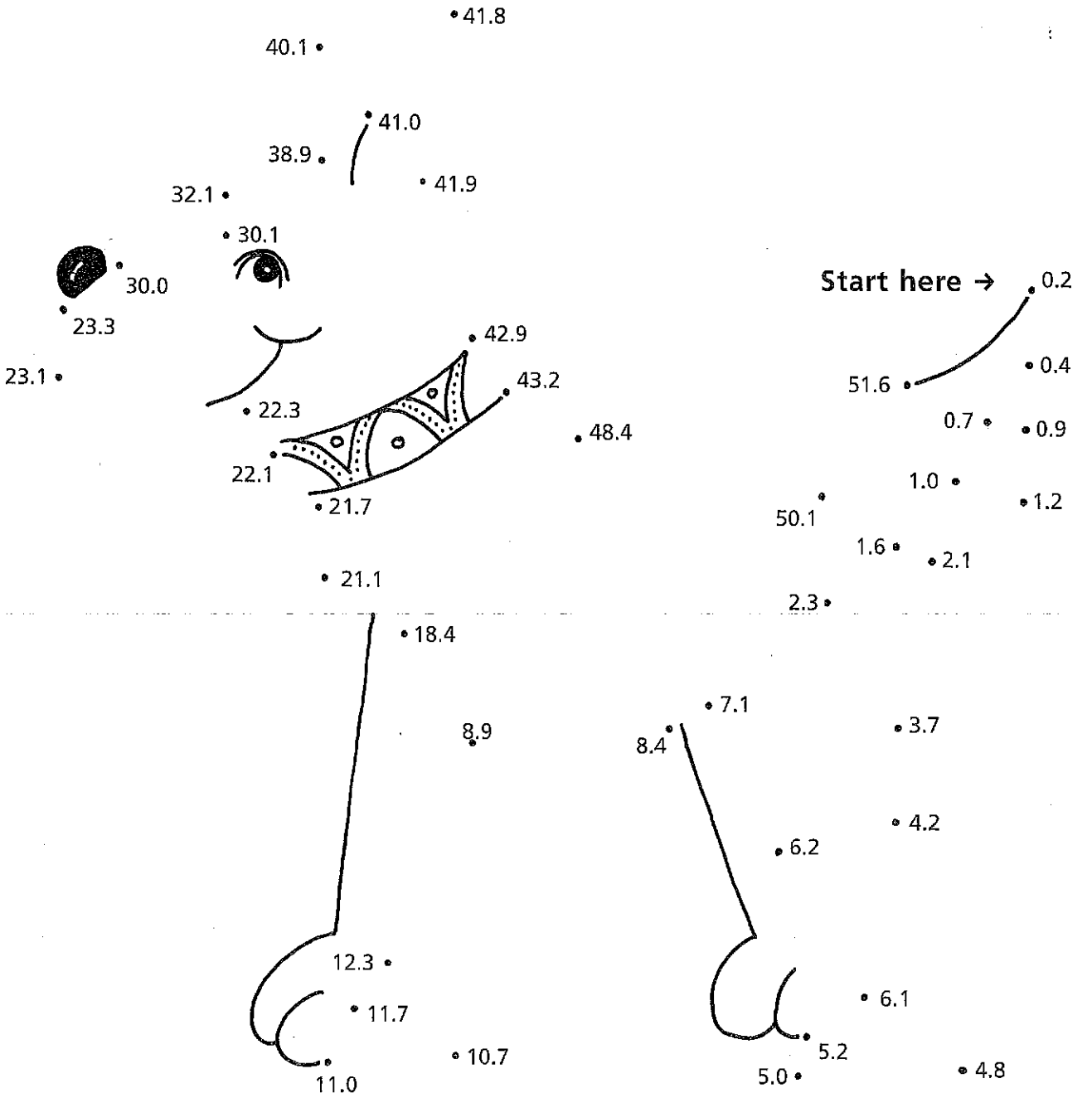
Write the letters with a ring in order.

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

Name _____

Decimal Dot-to-Dot

Complete the dot-to-dot by connecting the decimal numbers.
Work in order from least to greatest.



Name _____

Why Is the Rain Considered Clumsy?

Ring the digit in the place identified by the word after the number. The first one has been done for you.

1. 9.(4)5 (tenths)

2. 463.025 (hundredths)

3. 6,084.58 (ones)

4. 2.35 (tenths)

5. 982.17 (tens)

6. 59,658.321 (thousands)

7. 3,514.70 (hundreds)

8. 546.982 (hundredths)

9. 7,908.12 (tenths)

10. 93.45 (ones)

11. 503.871 (tens)

12. 31.58 (hundredths)

13. 9,723.108 (thousands)

14. 347.93 (tenths)

15. 813.04 (hundredths)

16. 70.765 (tenths)

17. 7,621.46 (hundreds)

Write the digits with a ring in order. Use the Code Box to find the letter assigned to each digit. Write that letter below the box.

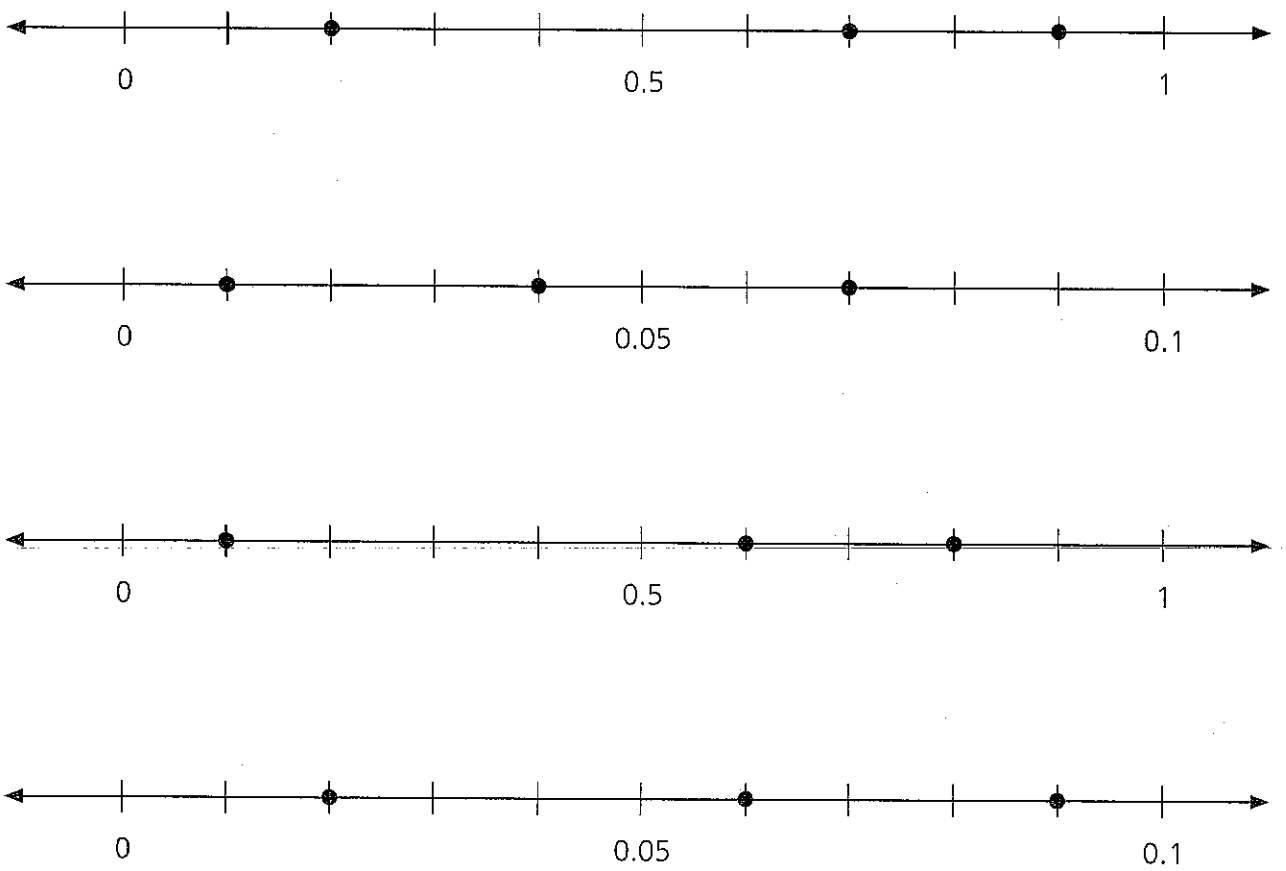
Code Box									
0	1	2	3	4	5	6	7	8	9
F	Y	T	S	I	W	G	N	A	L

4																
I																

Name _____

What Cow Does Not Give Milk?

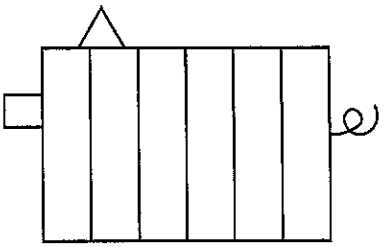
Label the points on each number line with the correct decimal number. Each answer can be found in the code at the bottom of the page. Each time you find one of the numbers there, cross out the letter above it. The letters that remain spell out the answer to the riddle.



A	M	H	E	G	I	O	M	L	V	A	K	E	I	P	D	E	U	A	D
0.3	0.05	0.8	0.2	0.02	0.08	0.01	0.06	0.4	0.1	0.7	0.5	0.04	0.6	0.07	0.03	0.9	1.0	0.09	0

Name _____

What Is This?



Write each numeral. Then write the letter of the exercise above your answer in the code. Continue until you have decoded the title of this picture.

G One and five tenths _____

I Ninety-nine and nine tenths _____

H Five and seventeen hundredths _____

E One hundred and ninety-nine hundredths _____

N Twenty and two hundredths _____

C Thirty-nine and two tenths _____

E One hundred and nine tenths _____

I Seventeen and sixteen hundredths _____

P Five and sixty-seven hundredths _____

N One and nine tenths _____

I Nineteen and twenty-five hundredths _____

A Thirty-nine and two hundredths _____

N One and four hundredths _____

E Seven and six tenths _____

A Twenty-two and twenty-two hundredths _____

D Seven and seven hundredths _____

H Five and six tenths _____

D Ninety-nine and nine hundredths _____

I Fifteen and five hundredths _____

B Ninety and thirty-four hundredths _____

G Eleven and four tenths _____

F Five and six hundredths _____

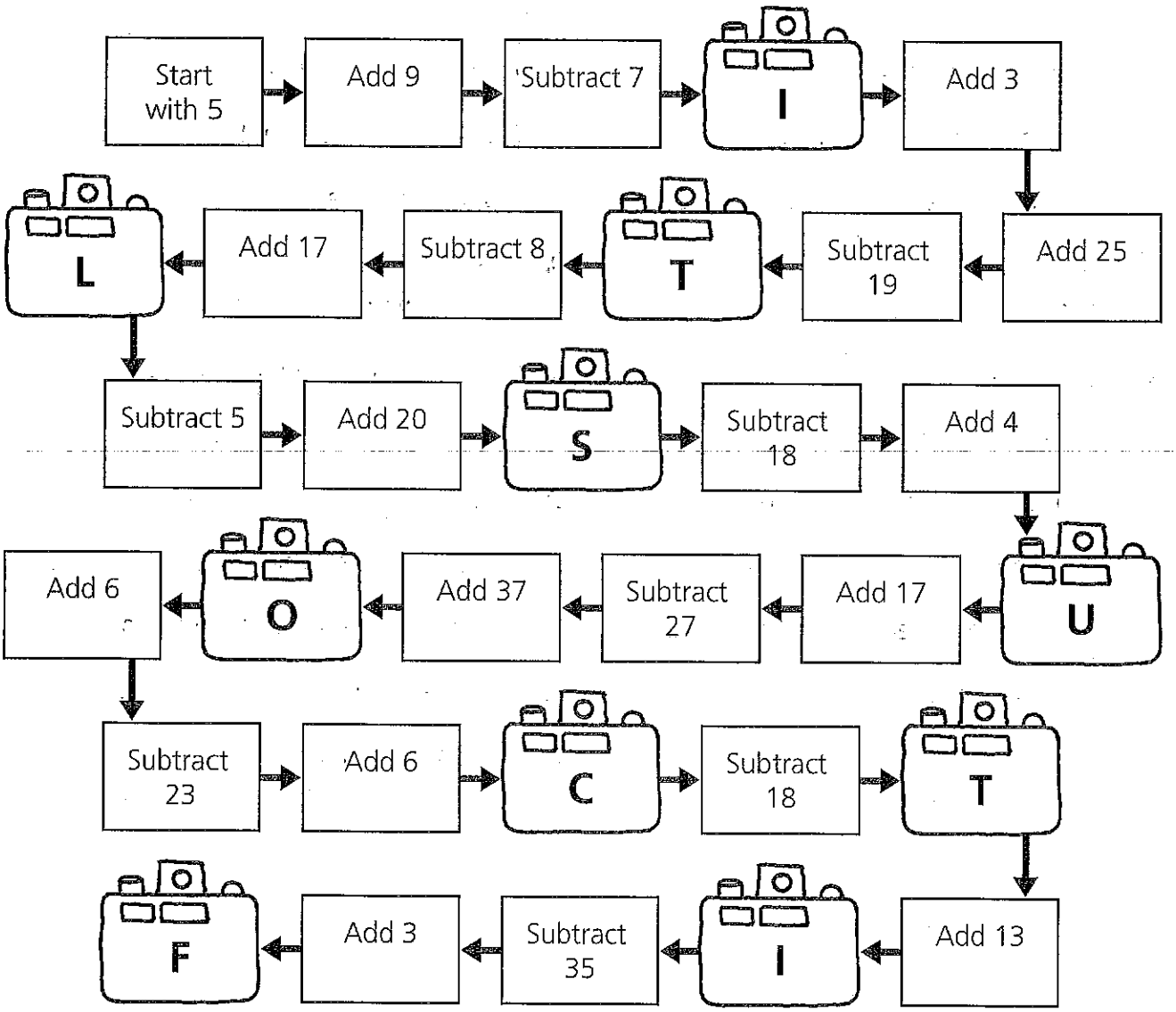
_____		_____	_____	_____		_____	_____	_____	_____	_____	_____												
22.22		5.67	17.16	11.4		5.17	19.25	99.09	99.9	1.04	1.5												
_____	_____	_____	_____	_____	_____		_____		_____	_____	_____	_____	_____										
90.34	7.6	5.6	15.05	20.02	7.07		39.02		5.06	100.99	1.9	39.2	100.9										

Name _____

Why Did the School Camera Club Close?

Work in order and follow the directions to find the number that belongs in each lettered box. Then match the letter of the box to its number in the code.

37	16	25	53	40	24	7	16	40	5	53	42	26	40



Name _____

What Happened to the Playing Cards?

Solve each exercise. Draw a line from the letter of the addition fact to the number of the subtraction fact from the same fact family.

3 + 5 = _____	B	•	•	1	10 − 4 = _____
4 + 2 = _____	N	•	•	2	8 − 0 = _____
0 + 8 = _____	T	•	•	3	13 − 4 = _____
4 + 6 = _____	I	•	•	4	16 − 9 = _____
6 + 5 = _____	A	•	•	5	6 − 2 = _____
3 + 6 = _____	G	•	•	6	7 − 5 = _____
9 + 4 = _____	I	•	•	7	8 − 3 = _____
4 + 5 = _____	L	•	•	8	13 − 7 = _____
2 + 5 = _____	O	•	•	9	9 − 6 = _____
7 + 6 = _____	I	•	•	10	12 − 7 = _____
9 + 7 = _____	S	•	•	11	10 − 8 = _____
8 + 2 = _____	E	•	•	12	11 − 5 = _____
5 + 7 = _____	D	•	•	13	9 − 4 = _____

Find the letter that is matched with each number.
Write that letter below the number in the code.

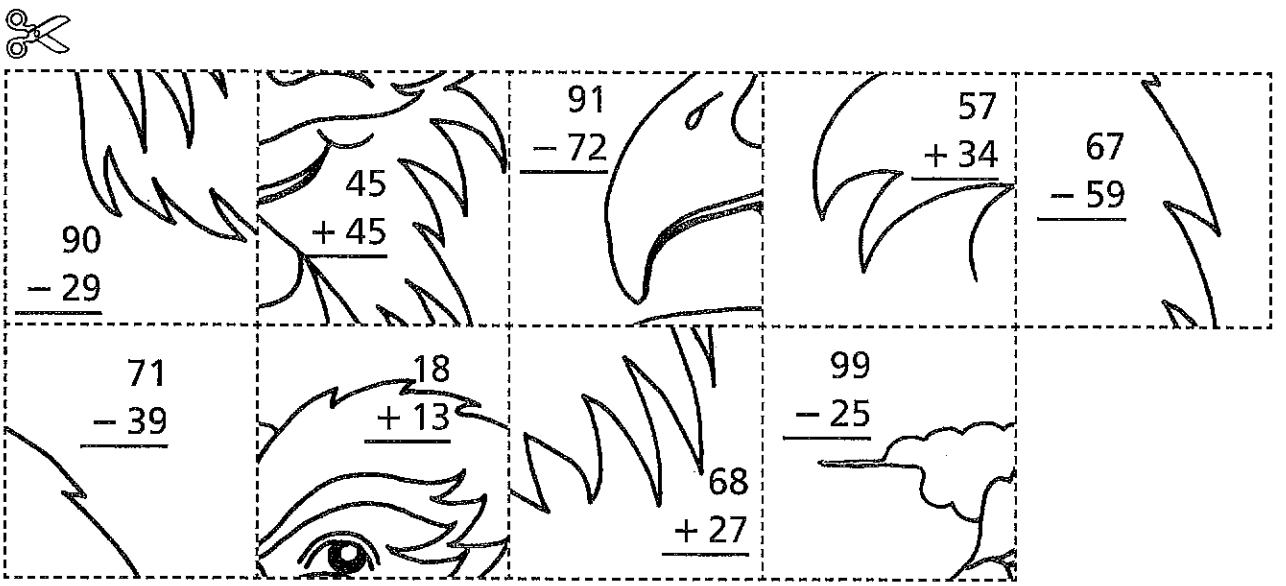
1	2	3	4	5	6	7	8	9	10	11	12	13

Name _____

Mystery Picture Puzzle

Solve each exercise. Then carefully cut out the picture pieces and paste them over the box with the matching answer.

56 + 18	73 − 42	15 + 17
43 − 24	67 + 23	73 − 65
36 + 55	84 − 23	39 + 56



Name _____

Daffy Definitions

Disband

933	461	67	203	444		810	182		203
461	713	100	444		1,000	461	713	810	182

Putty

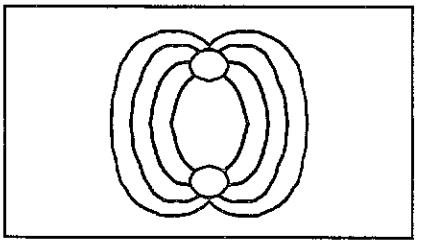
912	200	423	200	203	744	810	461	67
1,000	713	65	422					

Solve each exercise. Then write the letter of the exercise above its answer each time it appears in the code above.

C 11 + 89	**O** 762 − 49	**I** 167 + 33	**P** 221 − 39
N 324 + 99	**R** 611 − 150	**M** 843 + 69	**L** 112 − 47
G 423 + 577	**E** 417 − 350	**U** 542 + 268	**T** 812 − 68
B 374 + 559	**F** 621 − 199	**A** 159 + 44	**K** 321 + 123

Name _____

What Is This?



Find each sum or difference and then find the answer in the code at the bottom of the page.
Write the letter of the exercise above its answer.

R 93 − 68	**S** 49 + 51	**A** 111 − 62	**N** 135 + 35	**I** 300 − 281
A 944 − 395	**M** 598 + 502	**O** 678 − 479	**G** 8,260 − 8,249	**W** 5,106 + 6,005
E 3,221 − 3,002	**C** 4,121 − 3,199	**S** 6,128 − 6,111	**I** 16,654 + 5,901	**L** 23,333 − 21,689
D 44,444 + 55,556	**S** 411,557 + 764	**K** 732,832 − 520,277	**P** 809,123 + 1,096	**R** 420,631 − 410,512

49		17	810,219	22,555	100,000	219	10,119						
11,111	549	1,644	212,555	22,555	170	11		549	922	25	199	100	412,321
49		1,100	19	25	10,119	199	10,119						

Name _____

An Interesting Fact

Find each sum or difference. Then find the answer to each of the exercises in a box below and cross out the box. When you are finished, the words that remain will tell an interesting fact.

1. 6,000 − 307	**2.** 2,599 + 1,099	**3.** 40 − 21	**4.** 198,004 + 123,456	**5.** 100 − 54	**6.** 30 − 12
7. 117,478 + 136,789	**8.** 81,234 − 6,908	**9.** 107 − 63	**10.** 60,606 + 13,412	**11.** 330 − 268	
12. 70,613 − 63,067	**13.** 230,091 − 148,911	**14.** 59,090 + 3,440	**15.** 5,090 − 2,917	**16.** 301 − 96	

EIGHT 46	SEVEN 2,073	FIVE 7,546	STATES 5,593	COUNTRIES 74,326
HAVE 205	WANT 19	SHARE 56	A 62,530	THE 47,194
CARDINAL 29	FLAGS 5,693	STARS 2,173	STRIPES 18	ROBIN 74,018
COINS 62	WHEN 44	AS 81,280	THE 3,698	THEIR 598
STATE 397	SYMBOL 321,460	YEAR 81,180	BIRD 74,548	FLAG 254,267

Name _____

Why Did the Poppy Seed Cross the Road?

Multiply. Draw lines to connect dots of facts with the same product.

$6 \times 8 =$ _____	**S**	•	•	**1**	$9 \times 4 =$ _____
$8 \times 11 =$ _____	**L**	•	•	**2**	$8 \times 5 =$ _____
$9 \times 8 =$ _____	**O**	•	•	**3**	$2 \times 10 =$ _____
$4 \times 6 =$ _____	**N**	•	•	**4**	$6 \times 9 =$ _____
$12 \times 3 =$ _____	**I**	•	•	**5**	$4 \times 12 =$ _____
$3 \times 6 =$ _____	**L**	•	•	**6**	$7 \times 9 =$ _____
$9 \times 6 =$ _____	**A**	•	•	**7**	$8 \times 3 =$ _____
$5 \times 4 =$ _____	**W**	•	•	**8**	$4 \times 4 =$ _____
$2 \times 5 =$ _____	**R**	•	•	**9**	$1 \times 10 =$ _____
$10 \times 4 =$ _____	**T**	•	•	**10**	$12 \times 6 =$ _____
$9 \times 7 =$ _____	**O**	•	•	**11**	$9 \times 2 =$ _____
$8 \times 2 =$ _____	**A**	•	•	**12**	$11 \times 8 =$ _____

Find the letter that is matched with each number.
Write that letter below the number in the code.

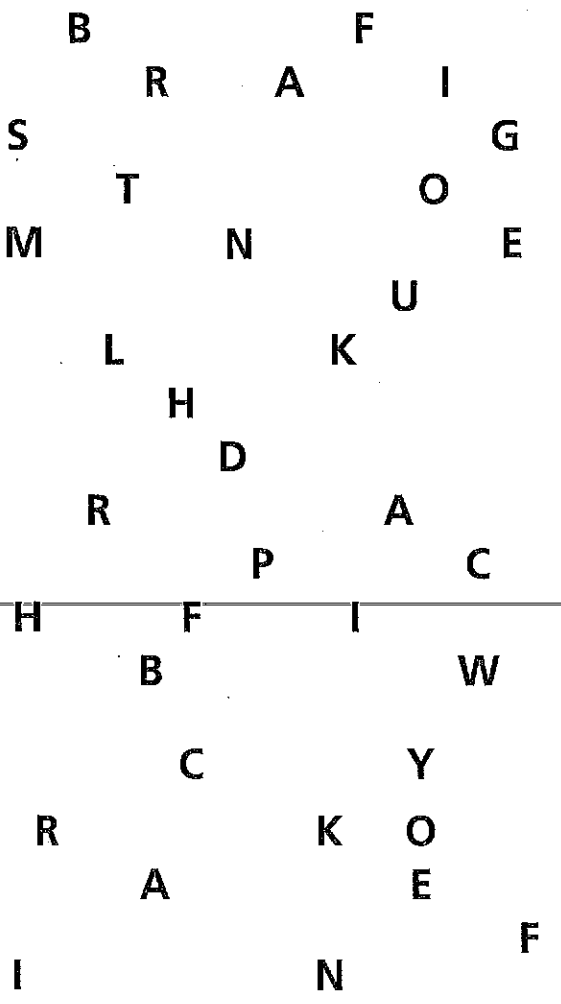
1	2	3	4	5	6	7	8	9	10	11	12

Name _____

What Do You Think?

Solve each problem. Using a ruler, draw a line from the dot following the multiplication fact to the dot in front of the division fact from the same fact family. Your lines will cross out letters. Write the letters that remain in order at the bottom of the page.

- $8 \times 12 =$ _____
- $4 \times 3 =$ _____
- $8 \times 7 =$ _____
- $3 \times 11 =$ _____
- $4 \times 5 =$ _____
- $6 \times 8 =$ _____
- $2 \times 12 =$ _____
- $6 \times 4 =$ _____
- $10 \times 2 =$ _____
- $6 \times 9 =$ _____
- $7 \times 4 =$ _____
- $5 \times 11 =$ _____
- $7 \times 1 =$ _____
- $8 \times 4 =$ _____
- $6 \times 12 =$ _____
- $7 \times 10 =$ _____
- $3 \times 8 =$ _____
- $8 \times 9 =$ _____
- $4 \times 11 =$ _____
- $10 \times 12 =$ _____



- $44 \div 11 =$ _____
- $55 \div 5 =$ _____
- $20 \div 10 =$ _____
- $96 \div 8 =$ _____
- $24 \div 3 =$ _____
- $54 \div 6 =$ _____
- $12 \div 4 =$ _____
- $70 \div 7 =$ _____
- $56 \div 8 =$ _____
- $33 \div 3 =$ _____
- $20 \div 4 =$ _____
- $120 \div 10 =$ _____
- $72 \div 8 =$ _____
- $72 \div 6 =$ _____
- $32 \div 8 =$ _____
- $7 \div 7 =$ _____
- $28 \div 7 =$ _____
- $48 \div 6 =$ _____
- $24 \div 2 =$ _____
- $24 \div 6 =$ _____

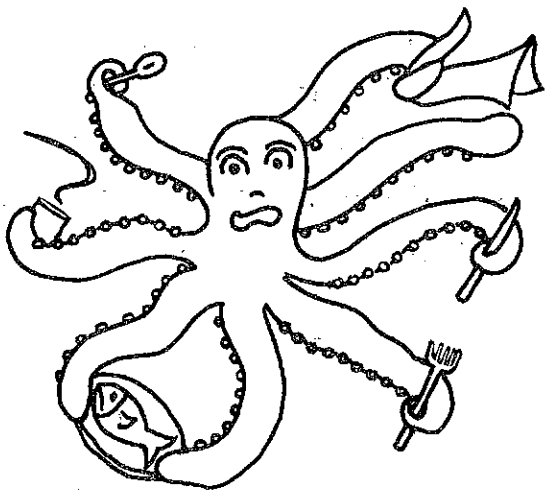
What do you call a rooster with a bad case of sunburn?

_____

Name _____

What Is a Sea Monster's Favorite Meal?

Multiply. Then write the letter of the problem above its product in the code.



B 91 × 2	A 10 × 7	N 32 × 3	S 70 × 4	N 74 × 2	E 61 × 7
C 40 × 2	M 12 × 4	S 21 × 3	I 34 × 2	H 41 × 8	A 70 × 8
U 43 × 3	D 62 × 2	W 51 × 6	R 33 × 3	I 42 × 4	A 61 × 8

488	280	129	182	48	560	99	168	148	427

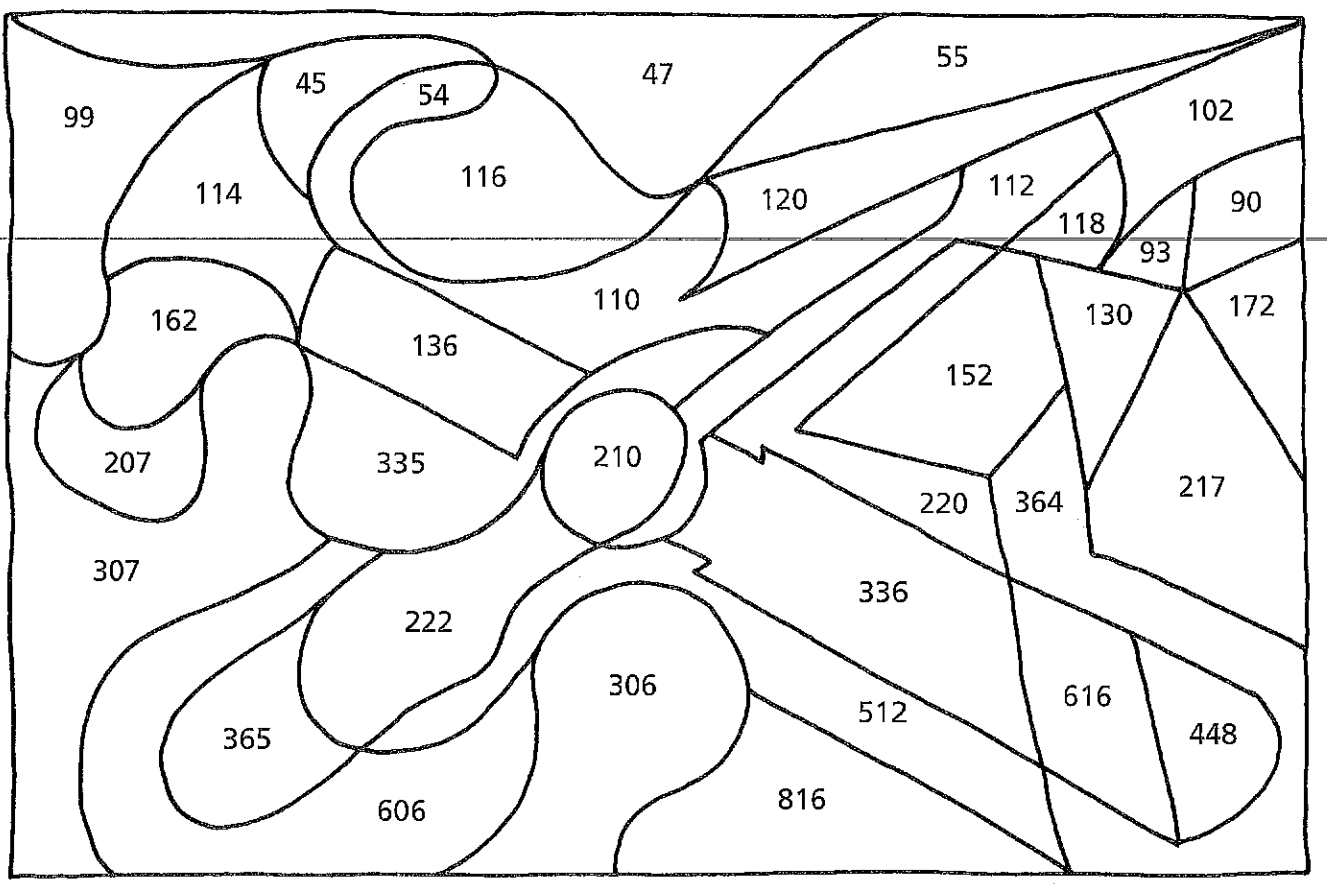
63	70	96	124	306	68	80	328

Name _____

Build on the Facts

Multiply. Then find each product in the design at the bottom of the page and shade the section in which it appears.

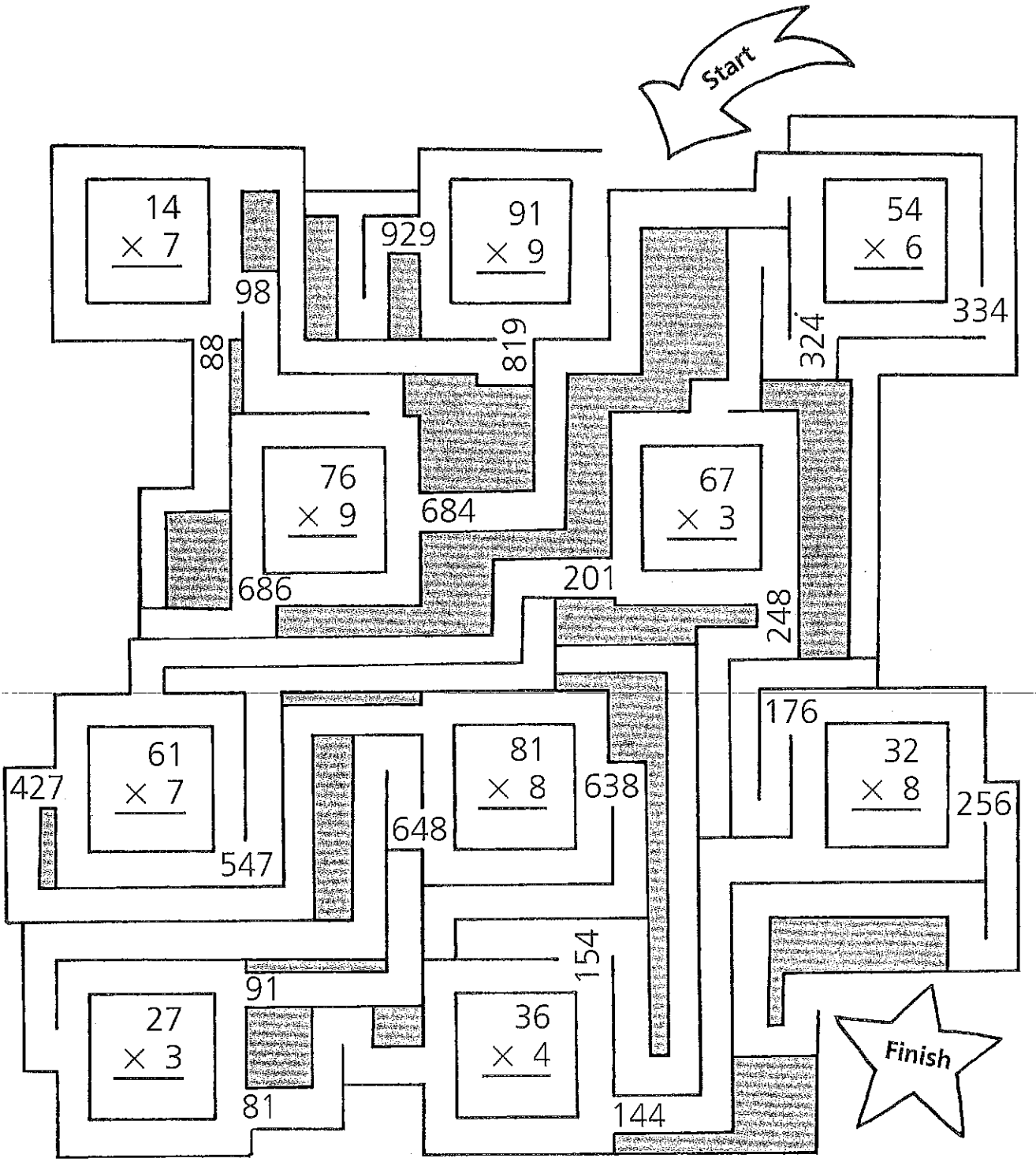
64 × 7	35 × 6	73 × 5	28 × 4	15 × 3	42 × 8
23 × 9	57 × 2	88 × 7	54 × 3	37 × 6	34 × 4



 Name _____

Multiplication at Every Turn

Multiply. Follow the path of correct answers.



Name _____

Daffy Definitions

Pillow _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____ _____
6,156 288 529 5,096 1,376 861 529 836 1,729 288 836 7,680

Tears _____ _____ _____ _____ _____ _____ _____ _____ _____
3,168 960 861 5,490 5,096 836 3,444 966 7,680

Hatchet _____ _____ _____ _____ _____ _____ _____ _____
2,108 6,156 529 1,729 529 6,156 288 7,857

_____ _____ _____ _____ _____ _____ _____ _____
5,096 3,444 288 7,680 1,729 3,444 529 7,857

_____ _____ _____
288 3,168 3,168

Multiply. Each time you find your product in the code, write the letter of the exercise above it.

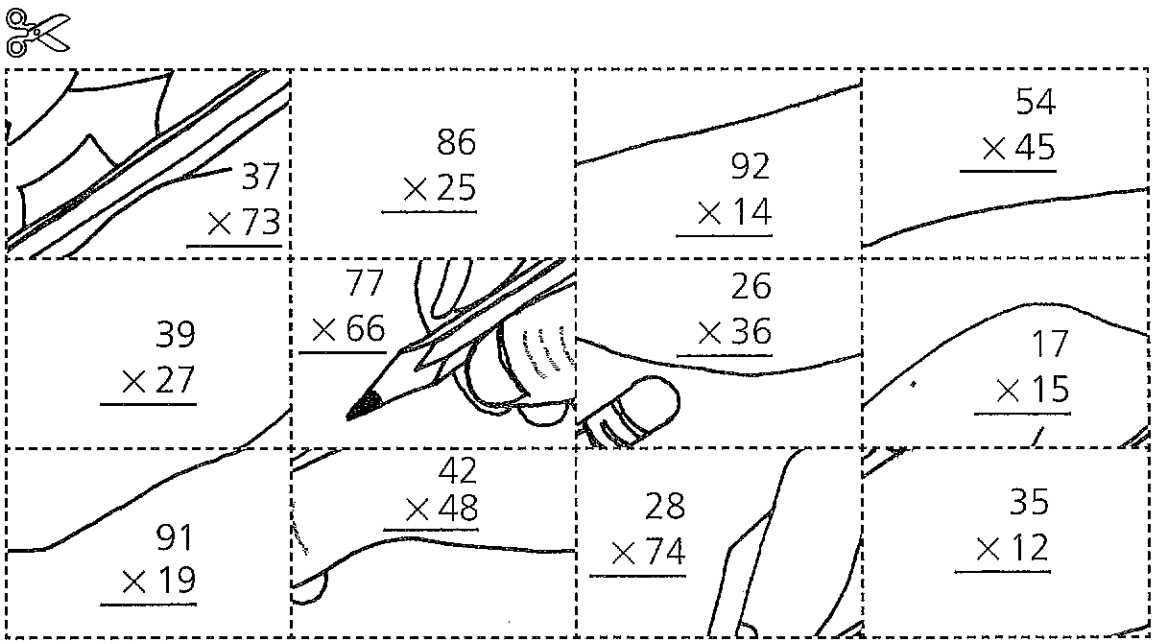
L 32 × 30	**R** 76 × 11	**U** 41 × 21	**S** 80 × 96
E 24 × 12	**Q** 43 × 32	**M** 90 × 61	**A** 23 × 23
T 91 × 19	**O** 82 × 42	**G** 72 × 44	**H** 81 × 76
P 42 × 23	**D** 91 × 56	**W** 62 × 34	**N** 81 × 97

Name _____

Art by the Numbers

Find the product for each multiplication exercise at the bottom of the page. Then carefully cut out the picture piece for that exercise and paste it over the box with the matching answer.

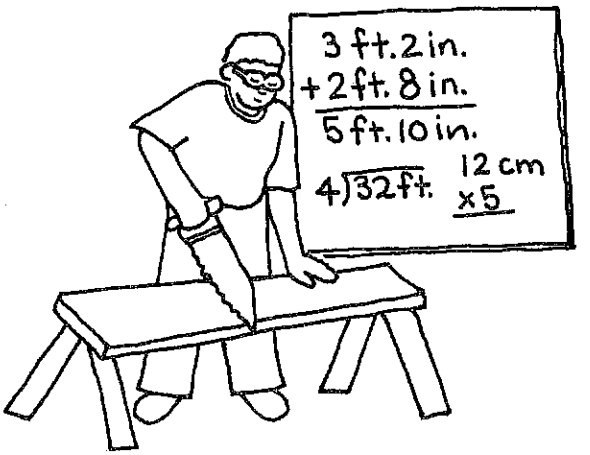
1,053	255	936	1,288
2,072	2,701	420	2,430
5,082	2,016	1,729	2,150



Name _____

Why Did the Carpenter Take a Math Class?

Multiply. Then look for your product in the code and write the letter of the problem above it.



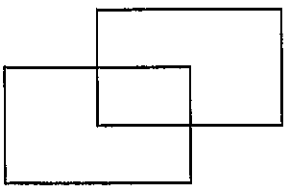
D 400 × 30	**L** 500 × 60	**A** 604 × 50	**S** 590 × 20	**I** 700 × 35
H 807 × 64	**E** 340 × 28	**T** 598 × 11	**U** 359 × 22	**O** 482 × 43
C 296 × 41	**P** 167 × 29	**B** 824 × 76	**M** 473 × 83	**N** 667 × 49

11,800	20,726		51,648	9,520		12,136	20,726	7,898	30,000	12,000				
62,624	7,898	24,500	30,000	12,000		30,200								
39,259	7,898	30,000	6,578	24,500	4,843	30,000	24,500	12,136	30,200	6,578	24,500	20,726	32,683	
6,578	30,200	62,624	30,000	9,520										

Name _____

A One Line Dot-to-Dot

Can you draw two separate rectangles like these without ever lifting your pencil or tracing over a line? Find each quotient. Then follow the order of your answers to complete the dot-to-dot and find out how.



1. $2\overline{)58}$ **2.** $6\overline{)84}$ **3.** $6\overline{)66}$ **4.** $5\overline{)90}$ **5.** $4\overline{)92}$

6. $3\overline{)75}$ **7.** $3\overline{)96}$ **8.** $3\overline{)87}$ **9.** $7\overline{)91}$ **10.** $2\overline{)50}$

11. $4\overline{)60}$ **12.** $4\overline{)76}$ **13.** $2\overline{)54}$ **14.** $8\overline{)96}$ **15.** $1\overline{)29}$

16 • 14 • 11 • 18 •

24 • 22 •

12 • 29 • 32 •

34 • 13 • 25 • 23 •

27 • 19 • 15 • 35 •

Name ______________________________

Stretch Your Mind

Find each quotient. Write the letter of the exercise above its answer in the code.

A $2\overline{)15}$	E $8\overline{)60}$	I $6\overline{)25}$	
O $9\overline{)38}$	U $7\overline{)62}$	N $5\overline{)38}$	
F $9\overline{)76}$	S $8\overline{)42}$	Y $7\overline{)31}$	
B $7\overline{)45}$	H $9\overline{)89}$	T $7\overline{)66}$	R $4\overline{)26}$

What is the difference between a rabbit that exercises and a silly joke?

___ ___ ___   ___ ___   ___   ___ ___ ___
4R2 7R3 7R4   4R1 5R2   7R1   8R4 4R1 9R3

___ ___ ___ ___ ___   ___ ___ ___
6R3 8R6 7R3 7R3 4R3   9R3 9R8 7R4

___ ___ ___ ___ ___   ___ ___   ___   ___ ___ ___
4R2 9R3 9R8 7R4 6R2   4R1 5R2   7R1   6R3 4R1 9R3

___ ___ ___ ___ ___
8R4 8R6 7R3 7R3 4R3

Name _____

How Can You Find a Missing Train?

Ring the letter in the column that names the property shown by the equation that heads the row. Then write the letters with a ring in order.

	Associative	Distributive	Commutative	Identity	Zero
$6 \times 17 = (6 \times 10) + (6 \times 7)$	A	F	L	Y	R
$(7 \times 5) \times 6 = 7 \times (5 \times 6)$	O	H	S	B	J
$8 \times 3 = 3 \times 8$	T	R	L	I	U
$9 \times 26 = (9 \times 20) + (9 \times 6)$	C	L	A	V	B
$27 \times 1 = 27$	R	E	N	O	P
$(15 \times 8) \times 5 = 15 \times (8 \times 5)$	W	A	M	E	T
$22 \times 0 \times 5 = 0$	K	S	G	D	I
$5 \times 7 \times 2 = 5 \times 2 \times 7$	F	O	T	J	C
~~$1 \times 483 = 483$~~	~~M~~	~~E~~	~~V~~	~~S~~	~~A~~
$13 \times 6 \times 0 = 0$	D	L	I	N	T
$18 \times 5 = (10 \times 5) + (8 \times 5)$	U	R	N	G	B
$5 \times 3 \times 4 = 3 \times 5 \times 4$	P	Y	A	E	S
$(6 \times 8) \times 5 = (6 \times 8) \times 5$	C	D	J	O	N
$8 \times 9 = 9 \times 8$	T	F	K	L	P
$(24 \times 7) + (24 \times 3) = 24 \times 10$	E	S	N	W	Y

Name _____

An Interesting Fact

Write each mixed number as an improper fraction. Find each answer at the bottom of the page and ring the word above it. Then write the words with a ring in order to learn an interesting fact.

$1\frac{3}{4} =$ _____ $1\frac{1}{2} =$ _____ $1\frac{1}{3} =$ _____

$1\frac{1}{8} =$ _____ $1\frac{5}{6} =$ _____ $1\frac{7}{8} =$ _____

$1\frac{2}{7} =$ _____ $1\frac{3}{5} =$ _____ $1\frac{3}{9} =$ _____

$1\frac{8}{9} =$ _____ $1\frac{3}{10} =$ _____

ALL $\frac{12}{6}$	RED $\frac{5}{3}$	THE $\frac{11}{6}$	LINES $\frac{10}{8}$	STRIPES $\frac{9}{7}$	ON $\frac{3}{2}$
BOOKS $\frac{13}{9}$	THE $\frac{9}{8}$	AMERICAN $\frac{17}{9}$	OF $\frac{3}{7}$	FRENCH $\frac{13}{7}$	FLAG $\frac{7}{4}$
REPRESENT $\frac{12}{9}$	LOOK $\frac{8}{4}$	LIKE $\frac{6}{5}$	THE $\frac{4}{3}$	WAVES $\frac{10}{9}$	FOR $\frac{4}{4}$
THIRTEEN $\frac{13}{10}$	FREEDOM $\frac{8}{6}$	NINE $\frac{6}{2}$	ORIGINAL $\frac{15}{8}$	COLONIES $\frac{8}{5}$	COUNTRIES $\frac{13}{5}$

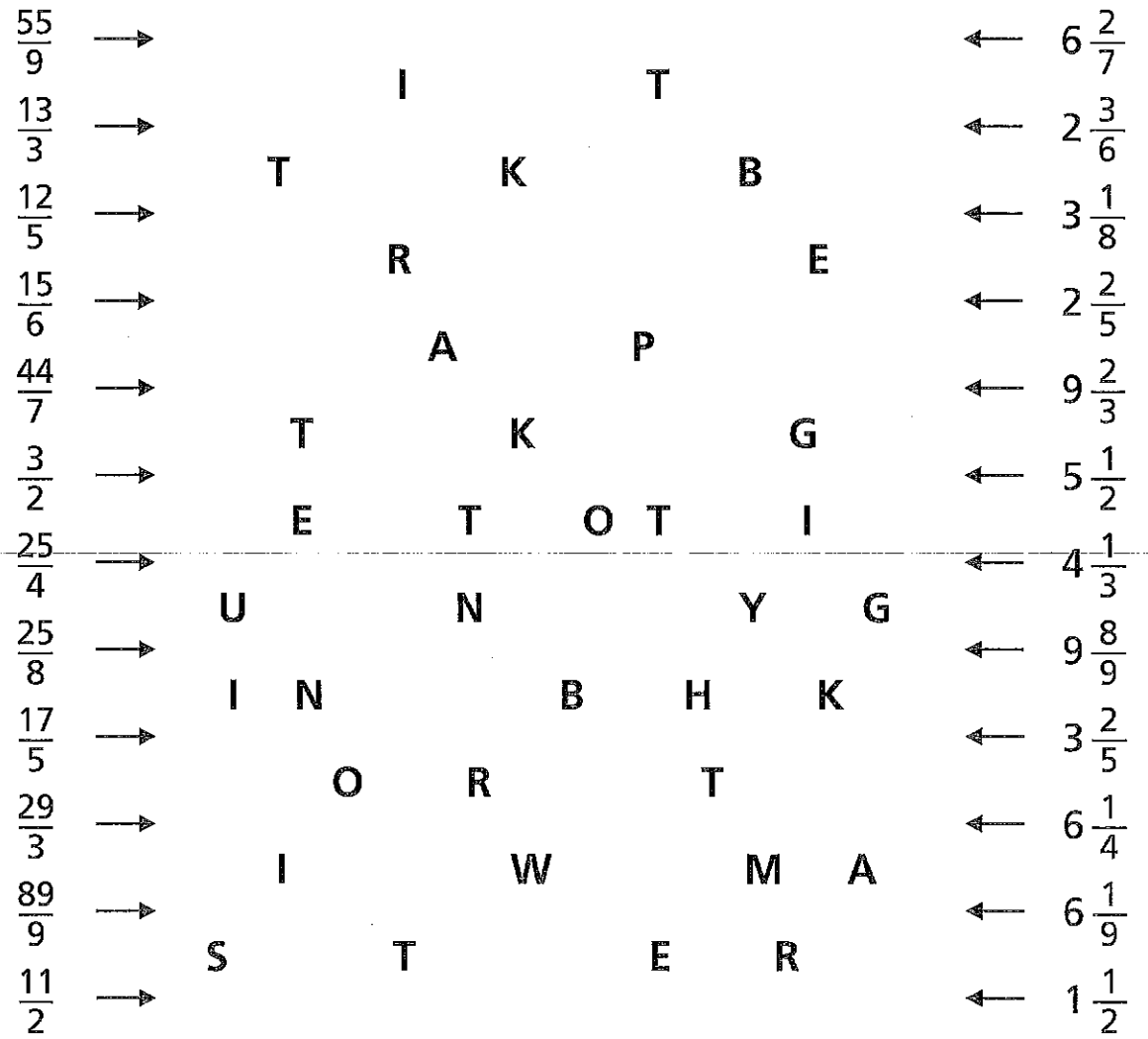
_____

_____

Name _____

Why Was the Tea Bag Was Fired?

Match each improper fraction with the mixed number it equals. Using a ruler, draw a line from the tip of the arrow following the improper fraction to the tip of the arrow in front of the mixed number.
Your lines will cross out letters. Write the letters that remain in order at the bottom of the page.



_____

Name _____

Same Name Game

Follow each set of directions. Then look for each answer in the hidden picture. When you find an answer, shade that section. When you are finished, you will have a picture of a familiar plant-eating animal.

Write each mixed numeral as an improper fraction.

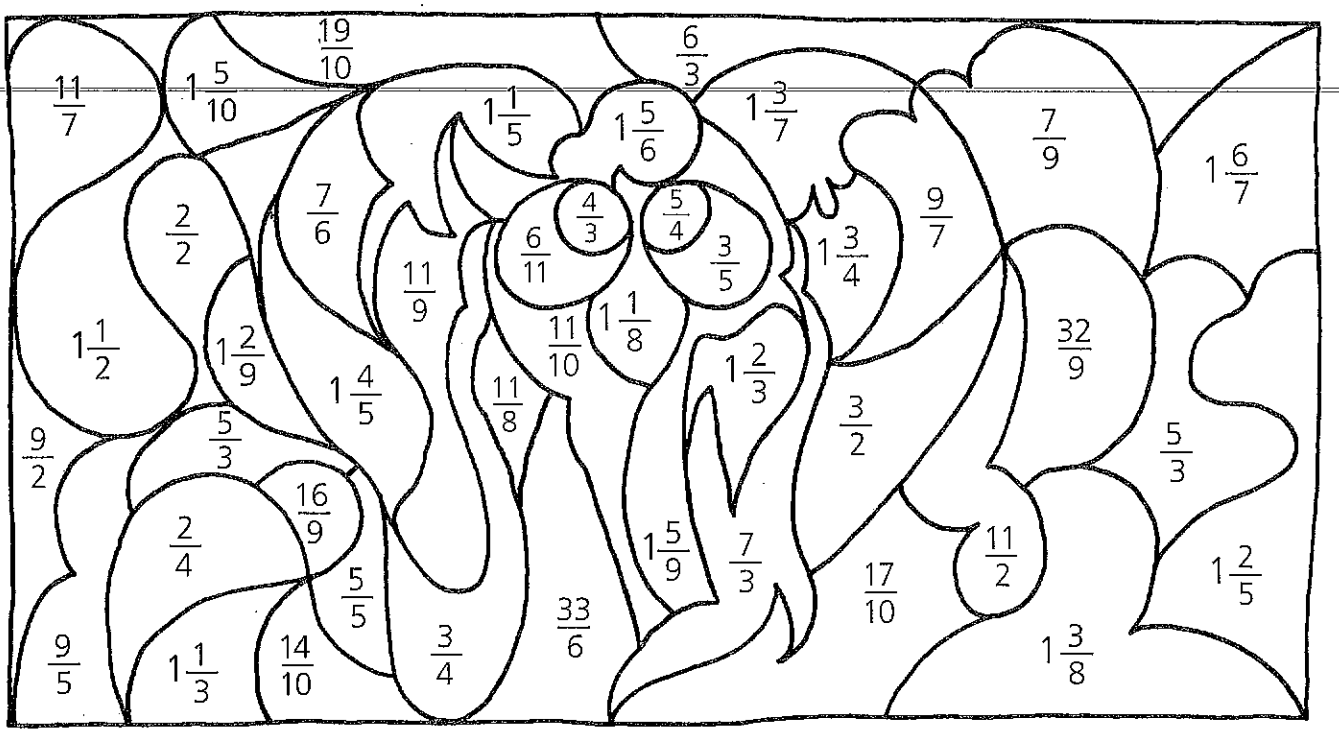
1. $1\frac{3}{8}$ _____ **2.** $1\frac{1}{4}$ _____ **3.** $1\frac{2}{7}$ _____ **4.** $1\frac{1}{10}$ _____

5. $1\frac{1}{3}$ _____ **6.** $1\frac{2}{9}$ _____ **7.** $1\frac{1}{6}$ _____ **8.** $1\frac{1}{2}$ _____

Write each improper fraction as a mixed numeral.

9. $\frac{6}{5}$ _____ **10.** $\frac{11}{6}$ _____ **11.** $\frac{5}{3}$ _____ **12.** $\frac{14}{9}$ _____

13. $\frac{10}{7}$ _____ **14.** $\frac{9}{5}$ _____ **15.** $\frac{9}{8}$ _____ **16.** $\frac{7}{4}$ _____



Name _____

An Interesting Fact

Ring the word in the box with fraction that is equal to the first one in the row.
Then write the words with a ring in order.

$\frac{5}{6}$	$\frac{10}{12}$ ABOUT	$\frac{8}{9}$ WHEN	$\frac{15}{16}$ IF
$\frac{3}{4}$	$\frac{5}{6}$ ONE	$\frac{3}{4}$ FOUR	$\frac{6}{8}$ TWO
$\frac{1}{2}$	$\frac{2}{3}$ FIFTHS	$\frac{2}{4}$ THIRDS	$\frac{2}{5}$ EIGHTH
$\frac{2}{3}$	$\frac{4}{9}$ IS	$\frac{6}{9}$ OF	$\frac{7}{10}$ MAKE
$\frac{1}{5}$	$\frac{6}{30}$ YOUR	$\frac{3}{10}$ MORE	$\frac{5}{15}$ A
$\frac{3}{7}$	$\frac{6}{10}$ FOOT	$\frac{12}{16}$ HAND	$\frac{12}{28}$ BODY
$\frac{5}{8}$	$\frac{15}{18}$ LENGTH	$\frac{15}{24}$ WEIGHT	$\frac{15}{16}$ MEASURE
$\frac{2}{7}$	$\frac{8}{28}$ IS	$\frac{4}{12}$ CAN	$\frac{6}{24}$ WILL
$\frac{3}{10}$	$\frac{9}{16}$ AIR	$\frac{30}{100}$ WATER	$\frac{6}{15}$ MELT

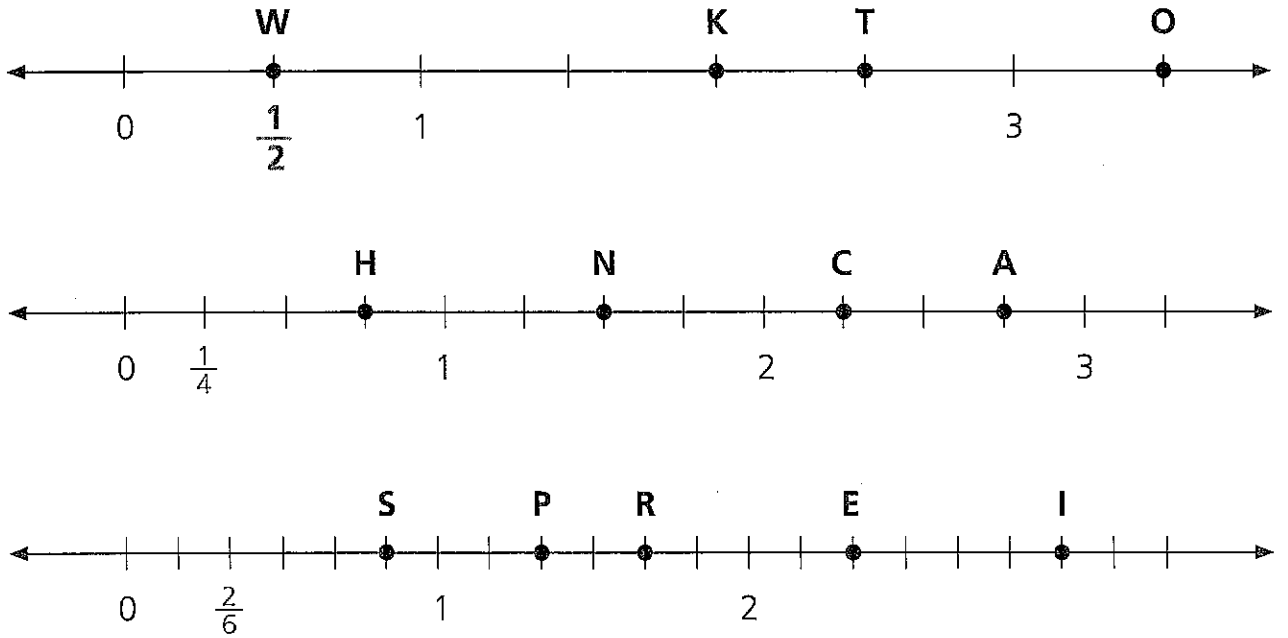
Did you know...

that human blood is 92% water, and the human brain is 75% water?

Name _____

What Do You Get?

Label the points on each number line. Then find each number in the code and write its letter above it. The first one has been done for you.



What do you get when you cross a rabbit with a spider?

$\overline{2\frac{3}{4}}$ $\overline{\frac{3}{4}}$ $\overline{2\frac{3}{4}}$ $\overline{1\frac{4}{6}}$ $\overline{2\frac{2}{6}}$ $\overline{1\frac{2}{4}}$ $\overline{2\frac{2}{6}}$ $\overline{2\frac{1}{2}}$

What do you get when you cross a sheep with a kangaroo?

$\overline{2\frac{3}{4}}$ $\overline{\frac{5}{6}}$ $\overline{\frac{1}{2}}$ (W) $\overline{2\frac{2}{6}}$ $\overline{2\frac{3}{4}}$ $\overline{2\frac{1}{2}}$ $\overline{2\frac{2}{6}}$ $\overline{1\frac{4}{6}}$ $\overline{\frac{1}{2}}$ (W) $\overline{3}$ $\overline{2\frac{1}{2}}$ $\overline{\frac{3}{4}}$

$\overline{1\frac{2}{6}}$ $\overline{3\frac{1}{2}}$ $\overline{2\frac{1}{4}}$ $\overline{2}$ $\overline{2\frac{2}{6}}$ $\overline{2\frac{1}{2}}$ $\overline{\frac{5}{6}}$

Name _____

Daffy Definitions

Ring the smaller fraction in each pair.

V $\frac{5}{12}$	C $\frac{9}{12}$	A $\frac{10}{25}$	L $\frac{15}{25}$	K $\frac{9}{10}$	T $\frac{9}{15}$
U $\frac{7}{10}$	H $\frac{7}{12}$	O $\frac{2}{6}$	F $\frac{3}{6}$	L $\frac{3}{10}$	B $\frac{5}{10}$

Ring the greater fraction in each pair.

F $\frac{3}{7}$	B $\frac{3}{8}$	R $\frac{6}{10}$	S $\frac{9}{10}$	Y $\frac{8}{20}$	W $\frac{18}{20}$
N $\frac{16}{25}$	T $\frac{12}{25}$	J $\frac{5}{100}$	P $\frac{5}{10}$	R $\frac{2}{5}$	S $\frac{2}{7}$

Ring the greatest fraction in each row.

I $\frac{1}{2}$	G $\frac{1}{4}$	M $\frac{1}{3}$
Y $\frac{12}{15}$	E $\frac{6}{15}$	J $\frac{9}{15}$
N $\frac{2}{12}$	V $\frac{2}{10}$	E $\frac{2}{8}$

Find each fraction you ring in the code.
Write the letter of the fraction above it.

Inkling

$\frac{10}{25}$	$\frac{5}{12}$	$\frac{2}{8}$	$\frac{2}{5}$	$\frac{12}{15}$	$\frac{3}{10}$	$\frac{1}{2}$	$\frac{9}{15}$	$\frac{9}{15}$	$\frac{3}{10}$	$\frac{2}{8}$	$\frac{5}{10}$	$\frac{2}{8}$	$\frac{16}{25}$	

Information

$\frac{7}{12}$	$\frac{2}{6}$	$\frac{18}{20}$	$\frac{5}{10}$	$\frac{3}{10}$	$\frac{10}{25}$	$\frac{16}{25}$	$\frac{2}{8}$	$\frac{9}{10}$	$\frac{3}{7}$	$\frac{3}{10}$	$\frac{12}{15}$	$\frac{10}{25}$	$\frac{9}{15}$	

$\frac{10}{25}$	$\frac{16}{25}$	$\frac{10}{25}$	$\frac{1}{2}$	$\frac{2}{5}$	$\frac{9}{10}$	$\frac{7}{12}$	$\frac{2}{6}$	$\frac{18}{10}$

Name _____

Designing Decimals

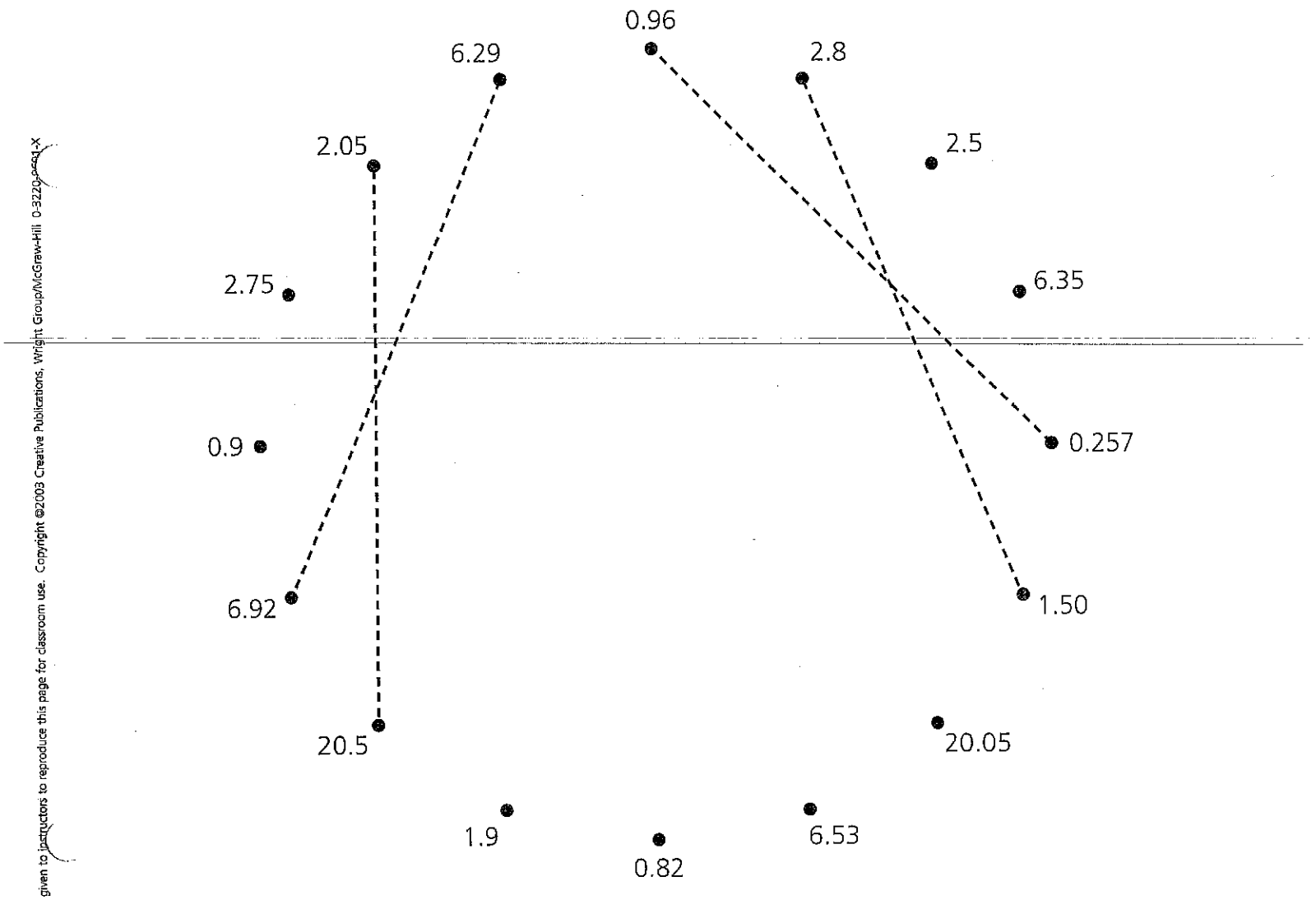
Write each set of decimals in order from least to greatest. Then follow the order of your numbers and connect the dots for each set.

A 0.9, 0.82, 0.257, 0.96

_____

B 1.50, 2.75, 1.9, 2.8

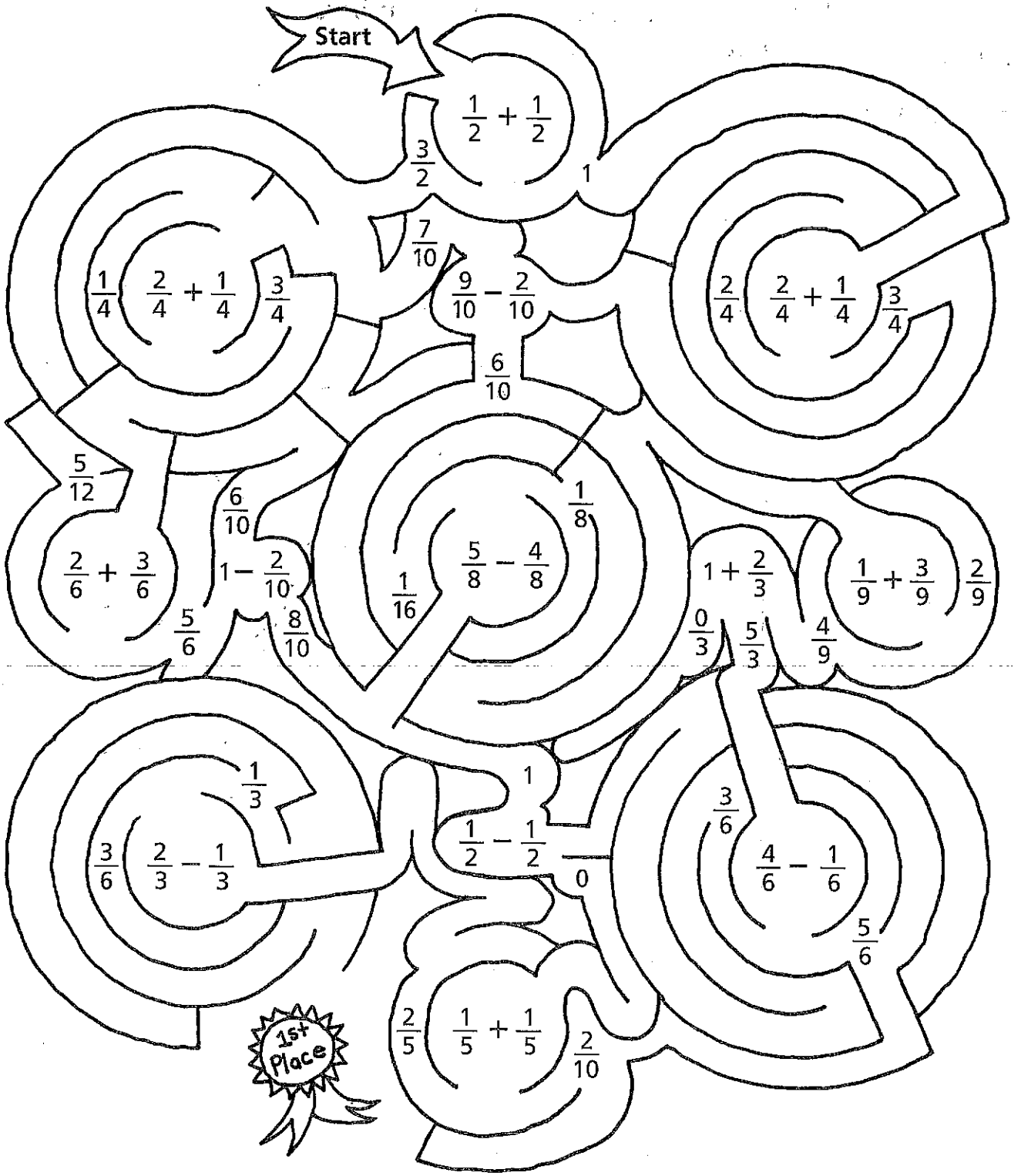
_____



Name _____

Fraction Maze

Follow the path of correct sums or differences through the maze.



Name _____

The Same, Yet Different

Find each sum or difference. Locate each answer in the code and write the letter of the question above it. You will spell out an anagram for *large*.

an·a·gram ('a-nə-.gram)
When you rearrange the letters of a word, name, or phrase to make another word, name, or phrase, you have an **anagram**. For example, the letters of the name *Rick Owen* can be rearranged to spell out the phrase "nice work."

E Roy played basketball for $\frac{1}{4}$ of an hour on Monday, $\frac{3}{4}$ of an hour on Tuesday, and $\frac{3}{4}$ of an hour on Wednesday. How many hours did Roy spend playing basketball on those three days? _____ hours

A Adria bought 2 pounds of jelly beans. She gave $\frac{2}{3}$ of a pound to her sister and $\frac{2}{3}$ of a pound to her cousin. How many pounds of jelly beans did Adria have left? _____ pounds

G On Friday, Catlin ran $1\frac{1}{5}$ miles. She ran $1\frac{2}{5}$ miles on Sunday. On the same two days her friend Lee ran a total of 3 miles. How much farther than Catlin did Lee run? _____ miles

R Nadia wants to use special ribbon to frame a picture she made. She needs 2 pieces of ribbon that are each $3\frac{5}{8}$ inches long and 2 pieces that are $5\frac{3}{8}$ inches long. In all, how many inches of ribbon does Nadia need? _____ inches

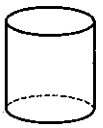
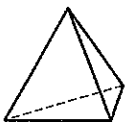
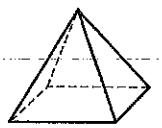
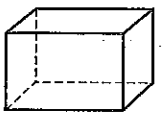
L Reggie has a shelf that is 17 inches long. He has a set of books he would like to place on the shelf. If each book is $2\frac{1}{2}$ inches thick, how many books can be placed on the shelf? _____ books

$\frac{2}{5}$	6	$\frac{2}{3}$	18	$1\frac{3}{4}$

Name _____

What Is a Math Teacher's Favorite Thing to Eat?

Complete the chart. Locate each answer in the code and write the letter from its box above it.

Figure	Number of Faces	Number of Straight Edges	Number of Vertices
 Cylinder	A	Y	Y
 Triangular Pyramid	M	R	M
 Cone	U	Y	D
 Square Pyramid	E	Q	E
 Rectangular Prism	R	S	Q
 Triangular Prism	E	L	R

3		12	8	2	3	6	5		4	5	3	9

Name _____

Why Couldn't the Geometric Figures Meet?

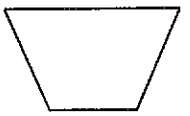
Ring the number and letter combination for every description listed that is true for the figure. Find the number from each combination you ring in the code and write the letter above it.

1.

rectangle

3-A all angles are equal
4-P all sides are equal
7-T opposite sides are equal
1-J only 1 pair of parallel sides
5-R opposite sides are parallel

2.



trapeziod

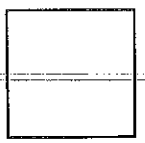
5-W all angles are equal
2-D all sides are equal
8-M opposite sides are equal
9-N only 1 pair of parallel sides
6-F opposite sides are parallel

3.

parallelogram

11-K all angles are equal
9-A all sides are equal
14-I opposite sides are equal
8-Y only 1 pair of parallel sides
4-S opposite sides are parallel

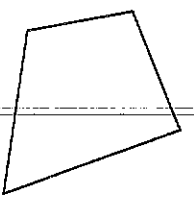
4.



square

10-D all angles are equal
8-C all sides are equal
6-Y opposite sides are equal
13-R only 1 pair of parallel sides
11-L opposite sides are parallel

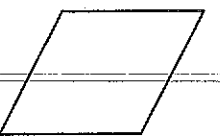
5.



quadrilateral

1-H no angles are equal
12-A all sides are equal
6-N opposite sides are equal
7-S only 1 pair of parallel sides
10-E opposite sides are parallel

6.



rhombus

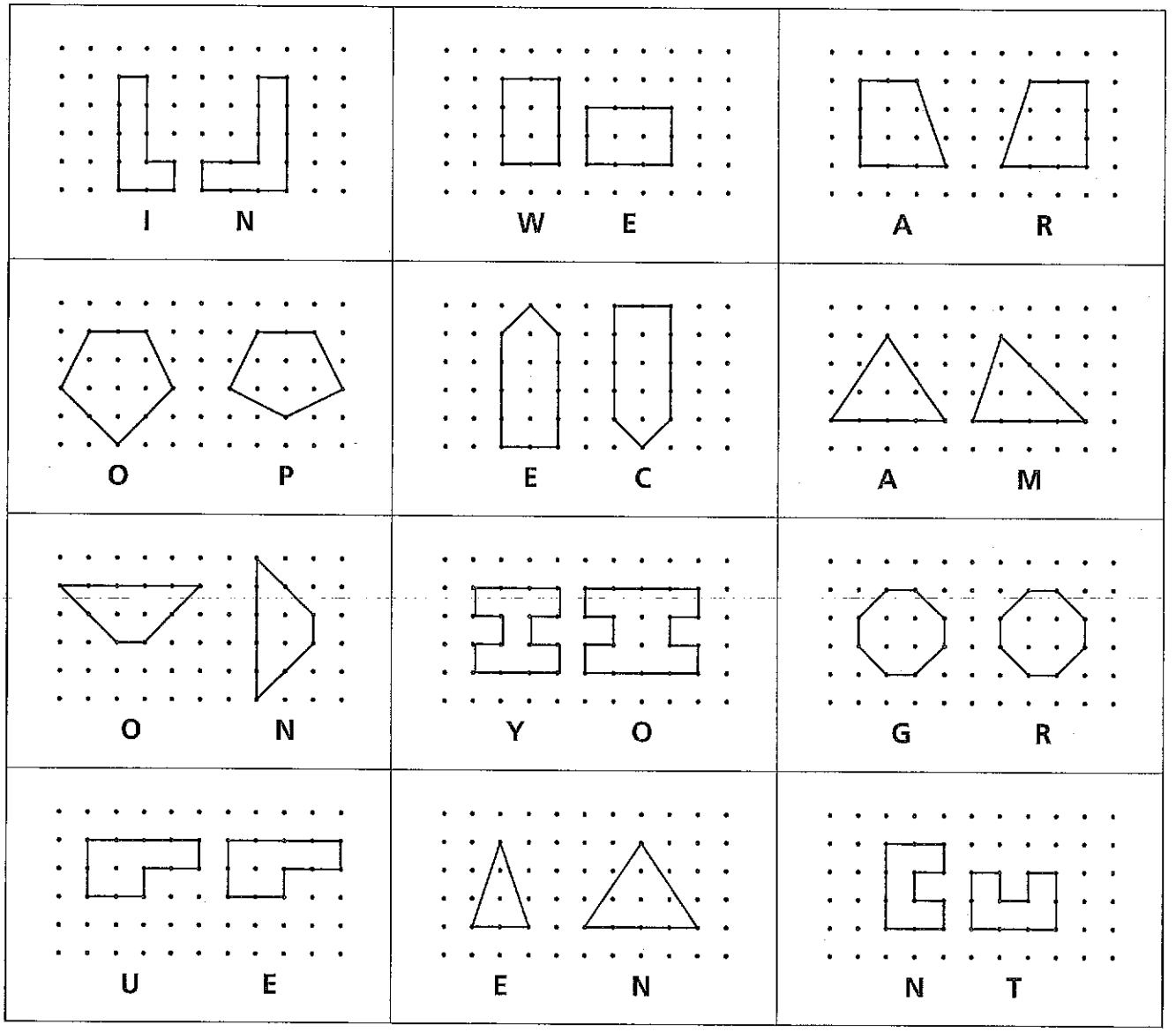
7-M no angles are equal
2-F all sides are equal
13-V opposite sides are equal
1-P only 1 pair of parallel sides
12-E opposite sides are parallel

7	1	12	6		7	5	3	13	12	11	12	10		14	9
10	14	2	2	12	5	12	9	7		8	14	5	8	11	12	4

Name _____

Are They Identical?

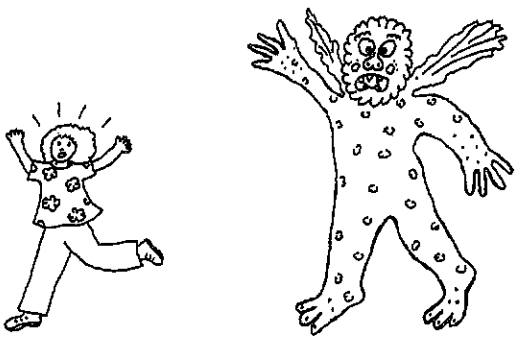
Determine whether the figures in each box are exactly the same shape and same size. If they are not the same shape and size, cross them out. Write the letters that are below the remaining figures in order at the bottom of the page.

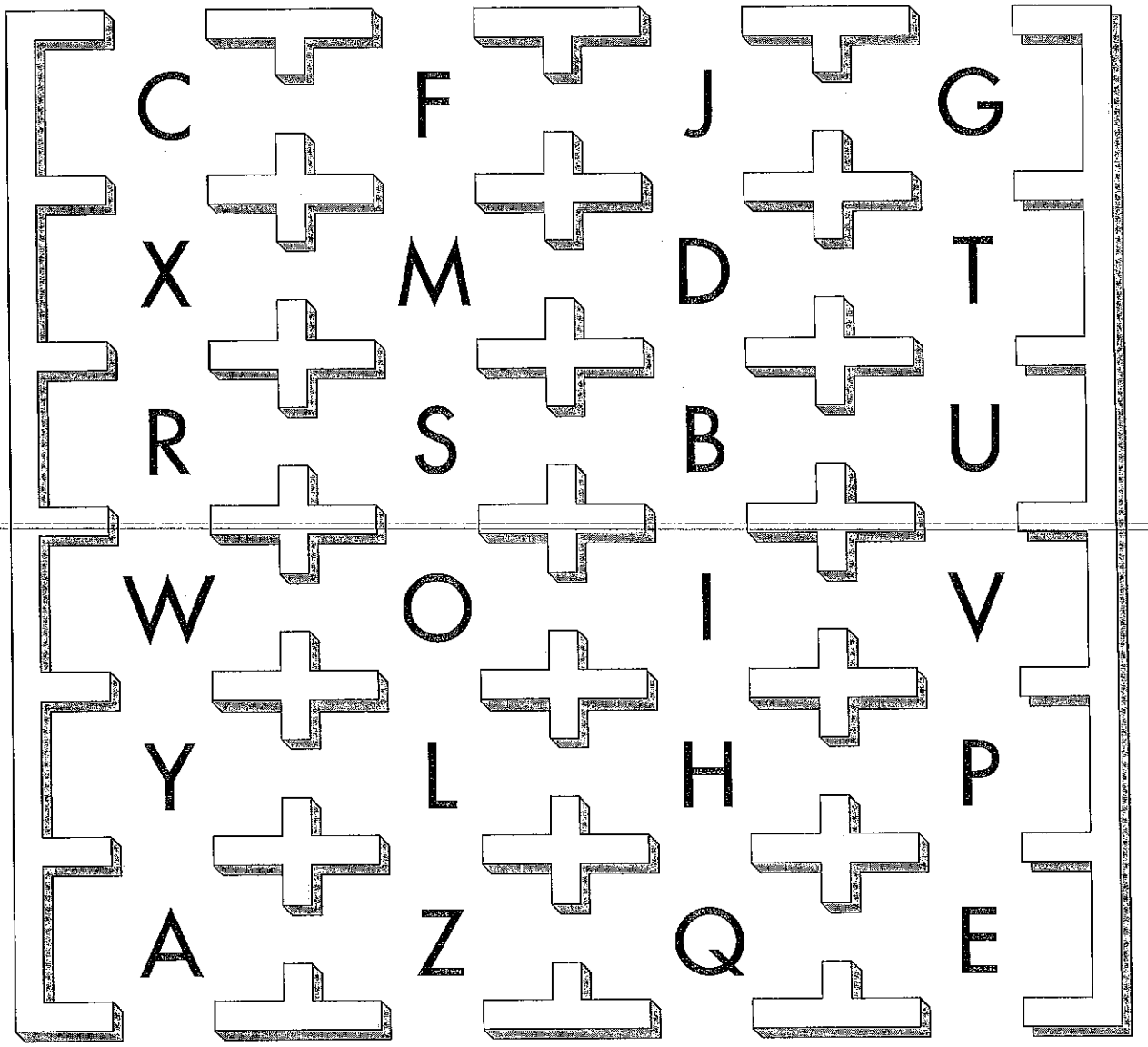


Name _____

Symmetry Maze

Help Tyra escape the monster. Follow the path of letters that have one or more lines of symmetry.



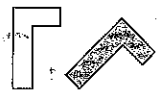
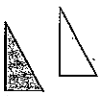
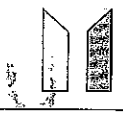
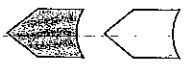
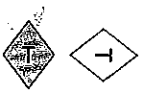
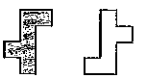


Safe Zone

Name _____

What Are We?

Decide whether the shaded figure in each pair represents a flip, a slide, or a turn of the unshaded figure. Ring the letter in the column that names your choice. Then write each letter with a ring above the number of the exercise in the code at the bottom of the page. You will spell out the geometric term for changing the position of a figure on a plane surface.

	Slide	Flip	Turn
1. 	G	L	R
2. 	I	M	D
3. 	E	O	A
4. 	T	S	N
5. 	F	B	Y
6. 	I	S	M
7. 	L	O	C
8. 	R	N	T
9. 	N	Y	E

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

Name _____

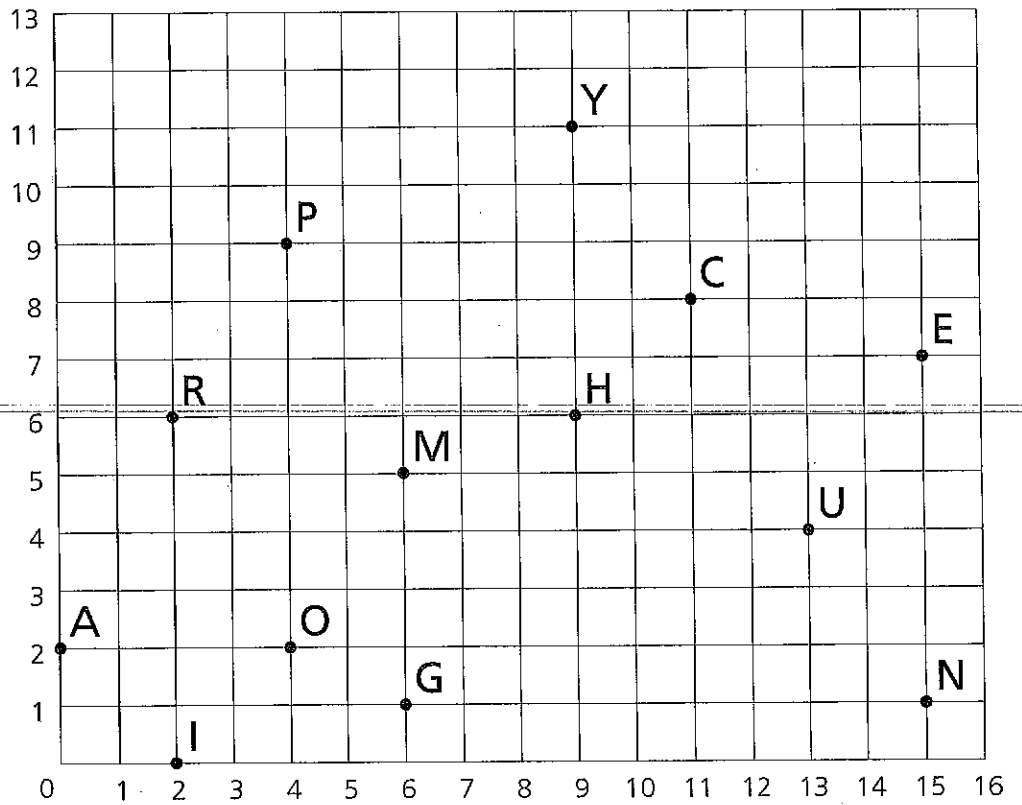
Take the Graphing Challenge

Write the coordinates for each point on the plane. Then find the coordinates in the code and write the letter of the point above them.

A = _____ **C** = _____ **E** = _____ **G** = _____ **H** = _____

I = _____ **M** = _____ **N** = _____ **O** = _____ **P** = _____

R = _____ **U** = _____ **Y** = _____



_____	_____	_____		_____	_____	_____		_____						
(9, 11)	(4, 2)	(13, 4)		(0, 2)	(2, 6)	(15, 7)		(0, 2)						
_____	_____	_____	_____	_____	_____	_____	_____		_____	_____	_____	_____	_____	
(6, 1)	(2, 6)	(0, 2)	(4, 9)	(9, 6)	(2, 0)	(15, 1)	(6, 1)		(11, 8)	(9, 6)	(0, 2)	(6, 5)	(4, 9)	

Name _____

Works of Fiction

Ring the letter in front of the best unit to measure.

1. the distance between New York and San Francisco.	**P** miles	**R** feet	**T** yards
2. the amount of sugar to make a cake.	**Y** tablespoon	**U** quart	**S** cup
3. the weight of a watermelon.	**A** tons	**I** pounds	**S** ounces
4. the time it would take to run a mile.	**L** minutes	**B** seconds	**U** hours
5. how much soup to eat for lunch.	**R** teaspoon	**I** tablespoon	**Z** cup
6. the weight of an airplane.	**P** pounds	**T** tons	**C** ounces
7. the amount of water to fill a large fish tank.	**K** quarts	**N** pints	**M** gallons
8. the amount of time it takes a jet to fly across the Atlantic Ocean.	**R** hours	**I** weeks	**G** minutes
9. the length of a basketball court.	**O** feet	**A** yards	**L** inches
10. the height of a door.	**X** feet	**R** yards	**B** inches
11. the weight of a dog.	**E** pounds	**S** tons	**T** ounces

Match the letter with a ring to the number of the exercise.

How to Get the Most for Your Money *by*

___	___	___		___	___	___	___	___	
7	9	10		3	7	3	5	11	

Until We Meet Again *by*

___	___	___	___	___		___	___	___	___	___
7	3	4	11	2		9	1	9	8	6

Name ____________________

Do You Know?

Ring the more likely estimate. Then write the letter with a ring above the number of the exercise in the code.

1. The distance between New York and Seattle	P 4,000 meters	D 4,000 kilometers
2. The amount of milk in a carton	H 1 liter	U 1 milliliter
3. The weight of a melon	A 3 grams	I 3 kilograms
4. The time it would take to run a 10k race	M 40 minutes	B 40 hours
5. The amount of soup to eat for lunch	S 237 milliliters	I 237 liters
6. The weight of an adult	P 50 dekagrams	A 50 kilograms
7. The amount of water to fill a large fish tank	N 25 liters	K 25 kiloliters
8. The distance from New York to London	R 5,600 kilometers	I 5,600 millimeters
9. The length of a basketball court	A 20 kilometers	O 29 meters
10. The height of a door	E 244 centimeters	R 244 meters
11. The weight of a dog	T 16 kilograms	S 16 dekagrams

What is the difference between a train conductor and a teacher?

__ __ __   __ __ __ __ __   __ __ __
9 7 10   4 3 7 1 5   11 2 10

__ __ __ __ __ __   __ __ __   __ __ __
11 8 6 3 7 5   6 7 1   11 2 10

__ __ __ __ __   __ __ __ __ __ __   __ __ __
9 11 2 10 8   11 8 6 3 7 5   11 2 10

__ __ __ __.
4 3 7 1

Name _____

A-Maze-ing Metrics

Ring each correct statement. Then begin at START and follow the path to FINISH. Write the letters of the path you follow in order.

Start

G 10 cm = 1 dm	**E** 30 cm = 3 hm	**T** 2 g = 20 cg	**A** 20 cm = 200 hm	**R** 20 cm = 200 dm
O 3 L = 300 cL	**W** 1 m = 100 cm	**I** 1,000 L = 1 kL	**T** 100 cg = 1 g	**Y** 5 g = 50 kg
T 9 kg = 90 g	**A** 50 cL = 5,000 mL	**N** 12 kg = 120 g	**H** 10 mm = 1 cm	**O** 20 mm = 2 m
L 4 g = 400 dg	**T** 2 km = 2,000 m	**E** 20 cL = 2 dL	**M** 1 hg = 100 mg	**S** 8 m = 8,000 cm
O 60 dL = 600 kL	**R** 3 hg = 300 g	**D** 70 kg = 7 hg	**I** 20 dg = 200 mg	**D** 10 m = 1,000 dm
M 80 dg = 8 cg	**I** 50 mL = 5 cL	**C** 700 mm = 70 cm	**S** 20 kg = 20,000 g	**A** 35 cL = 350 hL

Finish

Name _____

Anagram Fun

Write the number that completes each sentence and makes it true. Then find your answer in the code and write the letter of the exercise above it.
You will spell out an anagram for "The Mona Lisa".

L 3 feet = _____ yard

A 9 feet = _____ inches

O 24 inches = _____ feet

S $\frac{2}{3}$ yard = _____ inches

E $\frac{1}{2}$ foot = _____ inches

A $\frac{1}{2}$ yard = _____ inches

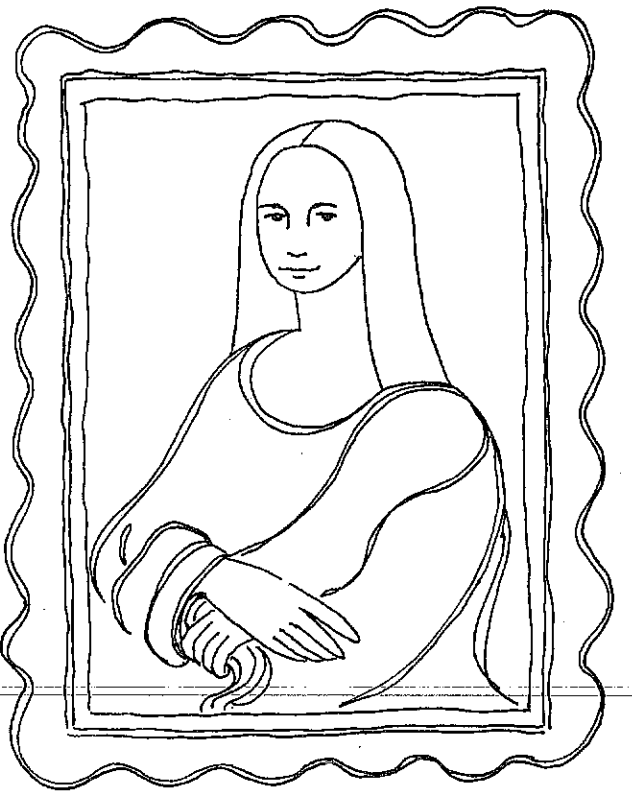
N $\frac{1}{3}$ yard = _____ inches

I 3 feet = _____ inches

T 5 yards = _____ feet

M 30 feet = _____ yards

H 3 yards = _____ feet



12	2	9	18	15	108	24	10	36	1	6

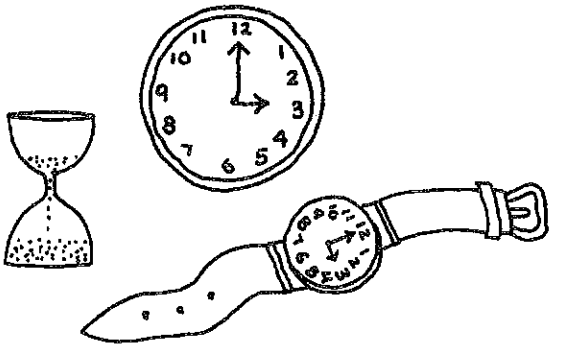
It's a fact...

The Mona Lisa, the picture of a woman with a mysterious smile, is the most famous painting by Leonardo da Vinci (1452–1519), a painter, architect, engineer, mathematician, and philosopher. This painting now hangs in the Louvre, an art museum in Paris, France.

Name _____

It Is About Time

Write the number that completes the sentence and makes it true. Find your answer in one of the boxes at the bottom of the page and ring the word below it. Then write the words with a ring in order to learn a fact about time.



1. 1 hour = _____ minutes
2. 1 century = _____ years
3. $\frac{1}{4}$ hour = _____ minutes
4. 1 year = _____ months
5. 1 year = _____ days
6. 60 minutes = _____ hour
7. 2 minutes = _____ seconds
8. 1 day = _____ hours
9. 2 weeks = _____ days
10. $\frac{1}{2}$ hour = _____ minutes
11. $1\frac{1}{2}$ hours = _____ minutes
12. 1 decade = _____ years

30 THE	26 ONLY	365 VERY	100 FIRST	360 FAST
15 CLOCKS	90 ALLOWED	366 WATCHES	1 PEOPLE	24 TO
10 USE	18 WATER	120 SHADOWS	20 POWER	12 TO
50 MEASURE	14 TRACK	7 WEEKLY	48 HOURS	60 TIME

_____

_____

Name _____

How Do Porcupines Play Leapfrog?

Ring the letter that tells how much time has passed.

1. Begin 2:30
End 

A	1 hr 25 min
G	35 min
S	50 min
R	40 min

2. Begin 8:20 p.m.
End 10:55 p.m.

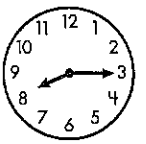
M	2 hrs 25 min
I	1 hr 45 min
E	2 hrs 35 min
T	1 hr 55 min

3. Begin 2:15 p.m.
End 2:35 p.m.

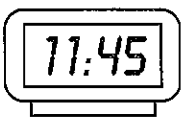
A	20 min
U	30 min
K	15 min
B	25 min

4. Begin 6:15 a.m.
End 10:00 a.m.

T	4 hrs 15 min
N	50 min
U	3 hrs 45 min
S	4 hrs 5 min

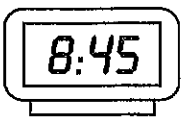
5. Begin 7:10 p.m.
End 

L	1 hr 5 min
N	50 min
O	55 min
A	1 hr 15 min

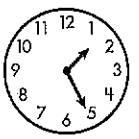
6. Begin 9:30 a.m.
End 

W	2 hrs 10 min
C	2 hrs 15 min
H	2 hrs 20 min
O	2 hrs 5 min

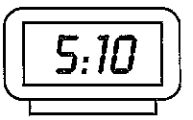
Ring the letter that tells what time it will be in 1 hour 20 minutes.

7. 

M	9:15
W	9:55
V	10:05
T	10:00

8. 

A	1:45
F	2:45
L	1:15
P	2:30

9. 

E	5:20
C	6:00
T	6:20
Y	6:30

Match the letter of the answer to the number of the exercise.

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

Name _____

What Did Kate Call Her Twin Sister?

Find the answer for each question. Then match the number of your answer to the letter of the exercise in the code at the bottom of the page.

C How many sandwiches can Mrs. Quan make from 2 pounds of sliced turkey if she uses 4 ounces of turkey in each sandwich? _____ sandwiches

D Jerod and Jerrard left home at 11:20 a.m. Jerod returned at 4:25 p.m. Jerrard returned home at 4:45 p.m. How much longer than Jerod was Jerrard gone? _____ minutes

T Gary trimmed the ceiling of a room that was 8 feet wide and 10 feet long. The trim was sold by the yard. How many yards of trim did he need? _____ yards

I Carrie made punch for a party. She mixed 5 quarts of cranberry juice with 4 quarts of apple juice. How many cups of punch did Carrie make? _____ cups

P Maribel needs 3 feet of ribbon to decorate a banner. She has 25 inches of ribbon. How many more inches of ribbon does she need? _____ inches

E Simon asked the clerk for 12 ounces of raisins and 14 ounces of peanuts. If he orders 2 pounds of the treats, he will get a discount. How many more ounces should Simon order to get the discount? _____ ounces

A A recipe that serves 4 people calls for $\frac{2}{3}$ cup of milk. How many cups of milk would be needed to make the recipe for 12 people? _____ cups

U Andy is 4 ft 9 in. tall. Asim is 50 inches tall. What is the difference in their heights? _____ inches

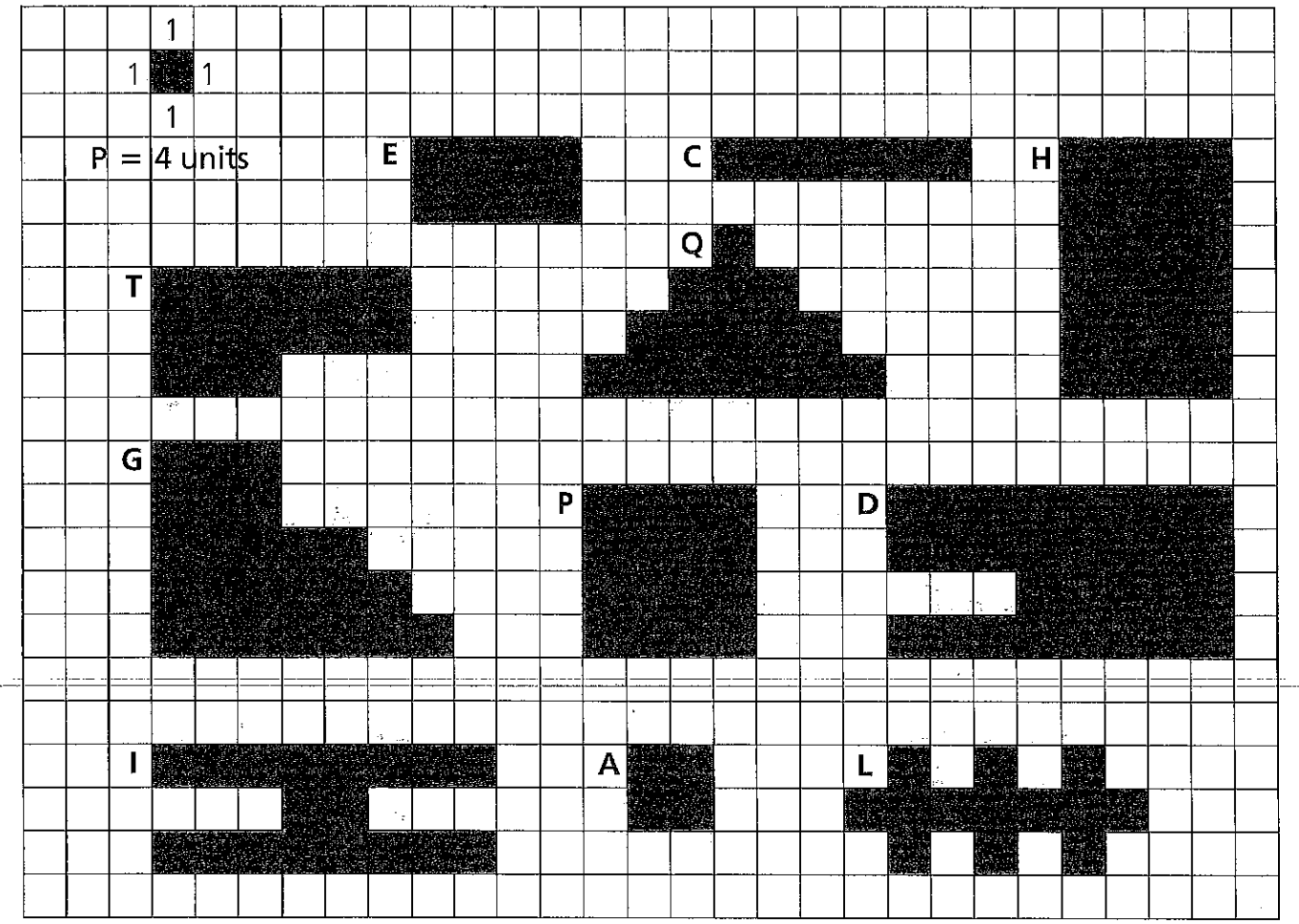
L Terri is knitting a scarf for her brother. She has knitted 12 inches so far, and she has used 1 ball of yarn. How many more balls of yarn will Terri need if the finished scarf is to be 2 yards long? _____ balls of yarn

20	7	11	5	36	8	2	12	6

Name _____

Works of Fiction

Count the number of units to determine the perimeter of each figure. Then find your answer in the code and write the letter of the figure above it.



How to Write a Book Report *by*

16	20	34	28	28	34	16		30	12	16	8	34	24	12

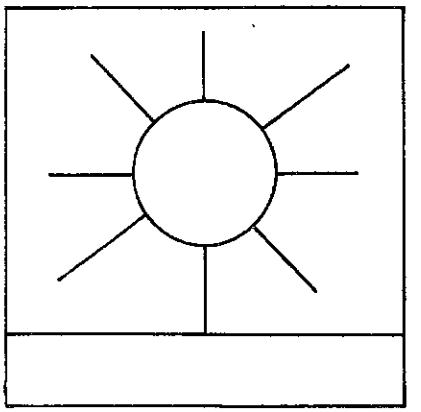
It All Adds Up *by*

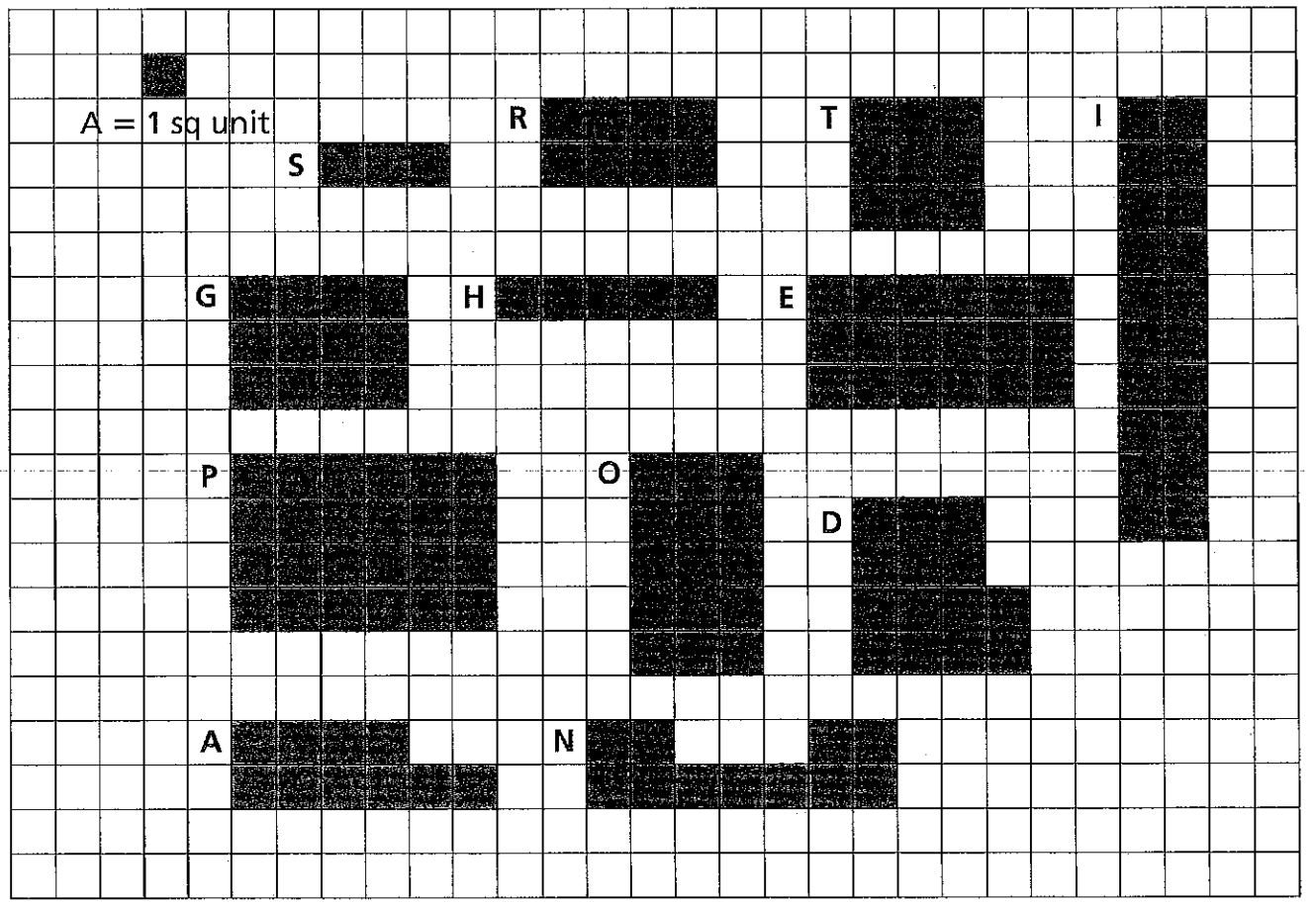
14	8	28		22	28	8	18	12

Name _____

What Is It?

Count the number of squares to determine the area of each figure. Then find your answer in the code and write the letter of the figure above it.





10	3	24	20	14	18	8	14	15	20	11	12

10	5	10	11	14	3	9	10	11	14

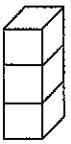
Name _____

How Do Billboards Communicate?

Count the number of cubes to determine the volume of each figure. Then find your answer in the code and write the letter of the figure above it.

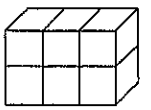
V = 1 cubic unit

A



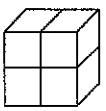
_____ cubic units

I



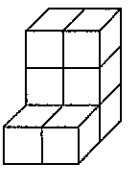
_____ cubic units

L



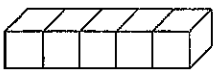
_____ cubic units

E



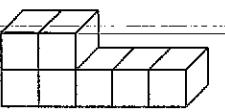
_____ cubic units

S



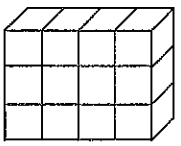
_____ cubic units

N



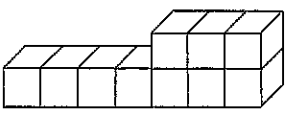
_____ cubic units

U



_____ cubic units

G



_____ cubic units

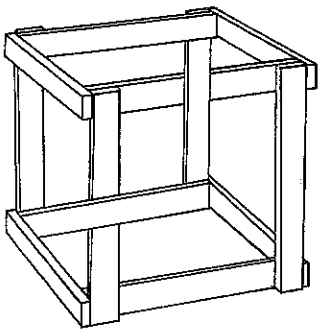
5	6	10	7		4	3	7	10	12	3	10	8	

Name _____

What Am I Missing?

Note: Use with page 55.

Ring the letter that tells the missing information needed to solve each problem. Then match the letter with a ring to the number of the exercise in the code. You will find the name of a famous Dutch artist who often created views that seemed to conflict, just like the box shown here.



1. Erin bought some apples for $4.00. How much did the apples cost per pound?

M The number of pounds of apples Erin bought
R The amount of money Erin gave the clerk
T The number of apples Erin eats in a week

2. Luke left his house at 2:30 and walked to the library. How long did it take Luke to walk to the library?

S The number of blocks Luke walked
H The time Luke got to the library
I The number of books Luke checked out

3. Marva is saving to buy a CD that costs $14.00. How many weeks will it take her to save that much?

J The name of the CD Marva wants to buy
N The amount of money Marva got for her birthday
C The amount of money Marva plans to save each week

4. Horatio can type 30 words a minute. How long will it take him to type 20 pages?

L The length of each page
R The number of words on each page
N The number of lines on each page

Name _____

What Am I Missing?

Note: Use with page 54.

5. Damion bought 2 copies of his favorite puzzle book for his friends. He paid with a $20.00 bill. How much change did Damion receive?

E The cost of one book
Y The number of puzzles in each book
D The number of pages in each book

6. Jeanine is organizing her coin collection. One-half of the coins are from Europe, $\frac{1}{2}$ of the coins are from Asia, $\frac{1}{8}$ of the coins are from South America, and the rest are from the United States. How many of Jeanine's coins are from Europe?

T The countries that are in Europe
F The value of the coins in Jeanine's collection
S The number of coins Jeanine has in her collection

7. Gwenan feeds her dog 2 dog biscuits a day. She just opened a new box of biscuits. How many days will it take before the box is empty?

E The number of biscuits in the box
G The cost of the box of biscuits
A The number of days in the month

8. Tyrell walks 4 blocks in 5 minutes. How many minutes does it take him to walk from his home to school each day?

L The time Tyrell leaves for school
C The number of blocks between Tyrell's home and the school
R The number of blocks between the school and Tyrell's friend Quinton's house

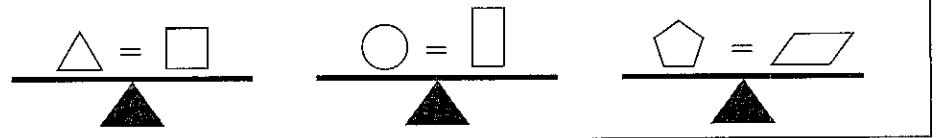
1	8	5	6	3	2	7	4

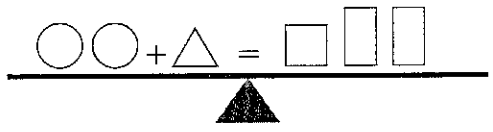
Name _____

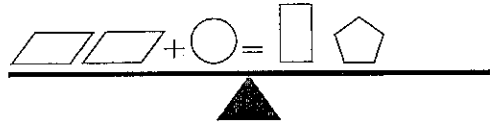
An Interesting Fact

Use the information shown to decide if the scales below are equal. If a scale shows a true statement, ring the box with its exercise number at the bottom of the page. Cross out the boxes that remain to reveal an interesting fact.

True Statements

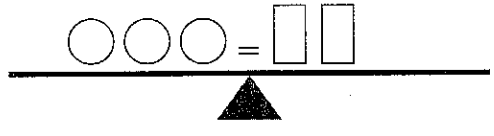


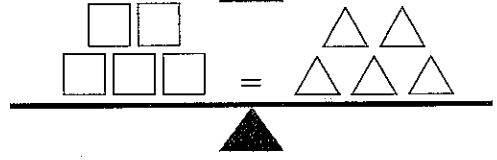
1. 

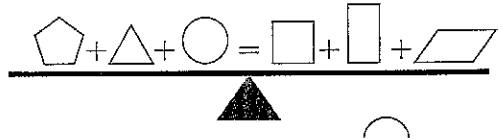
2. 

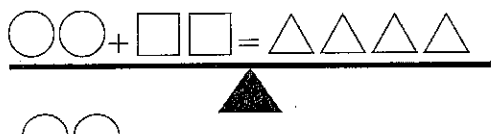
3. $100 + \square = 100 + \bigcirc + \triangle$

4. $25 + \square + \pentagon = \square\!\!/\!\!/ + \triangle + 25$

5. 

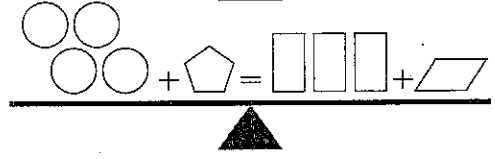
6. 

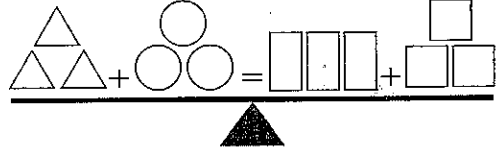
7. 

8. 

9. $10 + \square + \triangle = \bigcirc + \square$

10. $50 + \square\square + \pentagon = \square\!\!/\!\!/ + \bigcirc + 50$

11. 

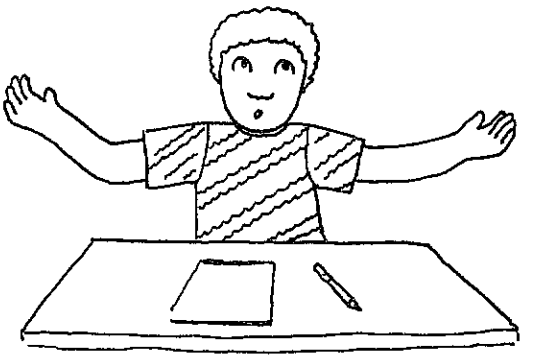
12. 

1 THE	2 AN	3 MEDIAN	4 AVERAGE	5 MAN	6 PERSON
7 FALLS	8 RUNS	9 A MILE	10 ASLEEP	11 IN 9 MINUTES	12 IN 7 MINUTES

Name _____

Can You Solve It?

For each exercise, ring the letter in front the sentence that is true. Then write the letters with a ring in order.



1. If $y = 5$, then	**A** $y + 5 = 8$	**Y** $(y + y)\ 2 \times 6 = 30$	**N** $56 - y = 51$
2. If $y = 8$, then	**I** $17 + y = 25$	**O** $y \times 7 = 54$	**R** $72 \div y = 8$
3. If $y = 4$, then	**E** $48 \div y = 14$	**U** $64 \div y = 15$	**C** $124 \div y = 31$
4. If $y = 6$, then	**M** $2 \times y = 36$	**E** $7 \times y = 42$	**A** $18 - y = 10$
5. If $y = 7$, then	**B** $47 + y = 64$	**L** $63 \div 9 = y$	**I** $84 \div y = 14$
6. If $y = 25$, then	**G** $13 + y = 28$	**N** $650 \div y = 25$	**Y** $68 - y = 43$
7. If $y = 62$, then	**D** $y + 38 = 100$	**F** $87 + y = 169$	**L** $2 \times y = 144$
8. If $y = 0$, then	**A** $325 - y = 300$	**O** $45 \times y = y$	**G** $y \div 3 = 15$
9. If $y = 9$, then	**N** $y \times y = 81$	**R** $98 \div y = 10$	**T** $40 \div 5 = y$
10. If $y = 14$, then	**S** $77 - y = 61$	**D** $y + 89 = 105$	**E** $3 \times y = 42$

Name _____

It Is a Puzzle

Evaluate each expression by using the values shown.

$a = 2$ $n = 1$ $x = 3$ $y = 5$

Find the value of each expression. Then find the answer in the code at the bottom of the page and write the letter of the exercise above it.

I $x + y =$ _____

E $a + n =$ _____

K $x - a =$ _____

G $n - n =$ _____

B $x + n + a =$ _____

C $5x =$ _____

H $2a + x =$ _____

L $y - n =$ _____

T $x - n =$ _____

U $x + a =$ _____

F $x + x + y =$ _____

N $y + y + a =$ _____

O $2y =$ _____

S $5n + 4 =$ _____

Why did the baker stop making doughnuts?

7	3		0	10	2		9	8	15	1
10	11		2	7	3		7	10	4	3
6	5	9	8	12	3	9	9			

Name _____

Hidden Picture

Write each of the expressions and sentences using math symbols. Then shade the sections of the hidden picure that match your answers.

1. 5 plus a number x equals 11

2. 7 minus a number n equals 5

3. 8 minus a number x equals 4

4. a number n increased by 3 is equal to 9

5. 2 less than a number y equals 10

6. 6 plus a number x equals 12

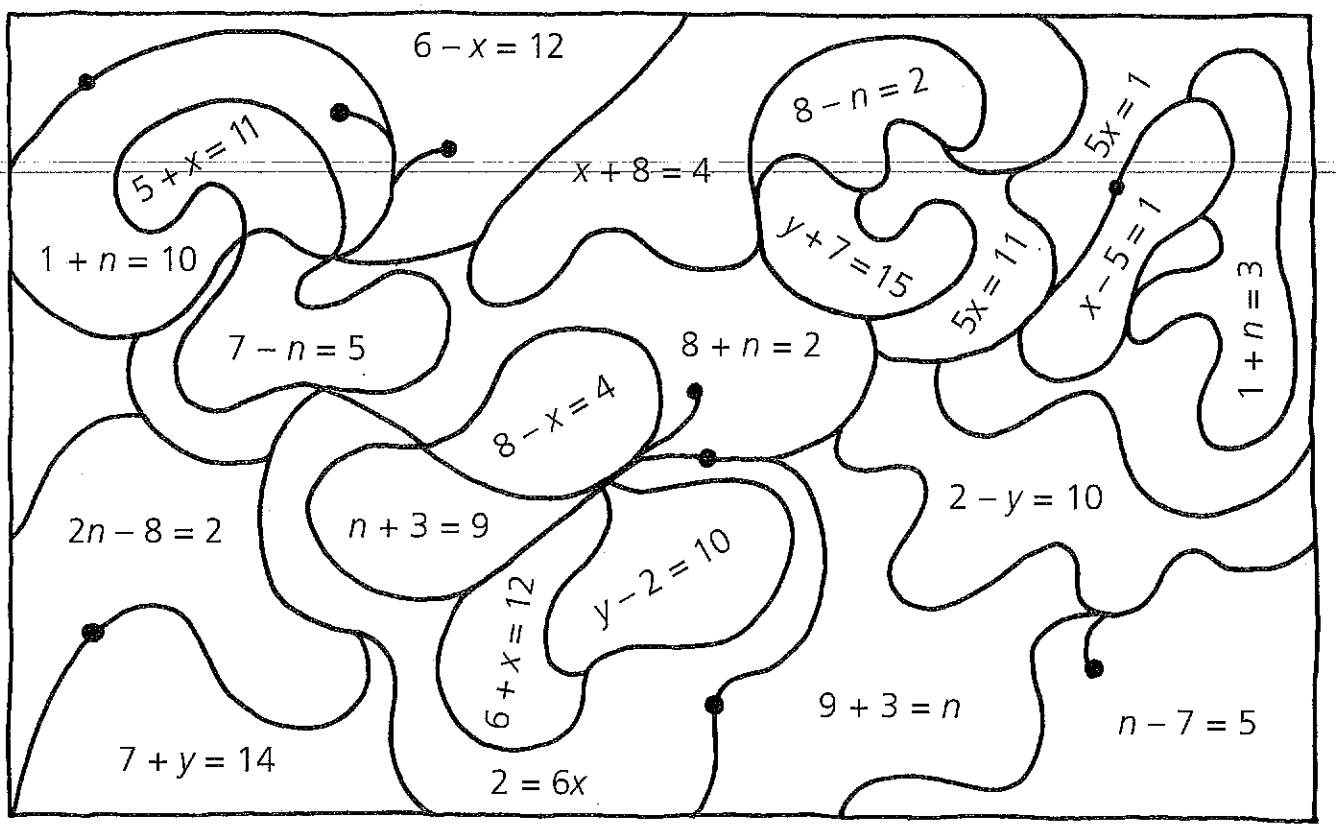
7. 8 minus a number n equals 2

8. a number y increased by 7 equals 15

9. 5 less than a number x equals 1

10. 1 plus a number n equals 3

Why did Bongo throw a stick of butter out the window?



Name _____

Works of Fiction

Telephone Problems *by*

___	___	___		___	___	___	___	___	___
40	28	33		33	12	13	6	25	40

Keep on Trying *by*

___	___	___	___	___	.	___	___	___	___
9	25	40	8	3		5	25	40	25

The Best Sandwich *by*

___	___	___	___	___			
10	25	17	17	7			
___	___	___	___	___	___	___	___
11	7	20	20	25	4	25	33

Solve each equation. Each time the solution appears in the code, write the letter of the exercise above it.

T $8 + 12 = x$

C $20 - x = 12$

B $7 + m = 13$

V $14 + x = 19$

R $25 + 15 = m$

S $n + 35 = 39$

K $y + 24 = 35$

N $45 - 12 = m$

O $4 + x = 32$

U $y + 8 = 20$

M $6 + 7 = n$

A $13 - 6 = n$

Y $15 - y = 12$

P $11 - x = 2$

L $26 + x = 43$

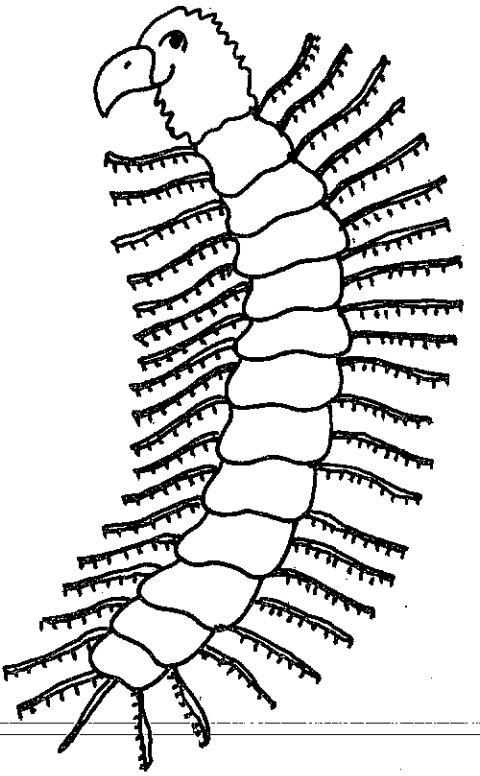
D $n - 3 = 7$

E $40 - y = 15$

Name _____

What Is It?

Find the missing number in each equation. Then find your answer in the code and write the letter of the exercise above it.



K $\square - (15 \times 5) = 100 \div 10$

A $7 + 9 \times 10 = 4 \times \square$

E $9 \times \square = 108 \div 2$

W $15 + 45 = \square \times (5 + 15)$

T $6 \times (3 + 7) = 18 + \square$

I $25 + (18 \times 2) = 25 + (2 \times \square)$

A $8 \times 9 \times 5 = \square \times 36$

E $(56 \div 8) \times (63 \div 9) = \square - (3 \times 17)$

L $(36 \div 9) \times 5 = 40 \div \square$

L $(64 \div 4) + \square = 120 \div 5$

I $3 \times \square \times 4 = 12 \times (8 - 1)$

A $36 + 64 + (\square \div 8) = 36 \times 3$

K $25 - \square = 9 + 7$

What do you get when you cross a parrot with a centipede?

10	3	64	2	85	7	100	42	40	8	9	18	6

Name _____

What Did the Dancer Do When She Hurt Her Foot?

Fill in the blanks in each sequence so that your answers complete the pattern. A calculator might be helpful for finding some of the answers.

S 102, 101, 99, ___, ◯, ___, 81

C 3, 6, 12, ___, ◯, ___, 192

H 97, 93, 89, ◯, ___, ___, 73

E 15, 22, 29, ___, ◯, ___, 57

U $\frac{1}{5}$, 1, 5, ___, ___, ◯, 3,125

A 80, 40, 20, ___, ◯, ___, $1\frac{1}{4}$

D 64, 32, ___, ◯, ___, 2, 1

R $\frac{3}{5}$, 1, $1\frac{2}{5}$, ___, ◯, ___, 3

T $\frac{1}{6}$, $1\frac{2}{6}$, $2\frac{3}{6}$, ___, ___, ◯, $7\frac{1}{6}$

O 291, 249, ◯, ___, ___, 81, 39

K $\frac{2}{3}$, $1\frac{1}{3}$, $2\frac{2}{3}$, ◯, ___, ___, $42\frac{2}{3}$

L 1, 4, 9, ___, ◯, ___, 49

Find each number with a ring in the code and write the letter of the exercise above it.

___	___	___	___	___	___	___	___	___	___
92	85	43	48	5	25	25	43	8	5

___	___	___	___	___	___	___	___
6	207	43	6	$2\frac{1}{5}$	625	48	$5\frac{1}{3}$

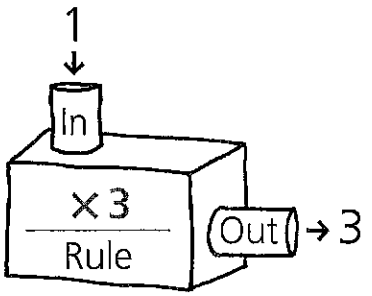
Name _____

Why Did the Girl Eat Her Math Homework?

Note: Use with page 64.

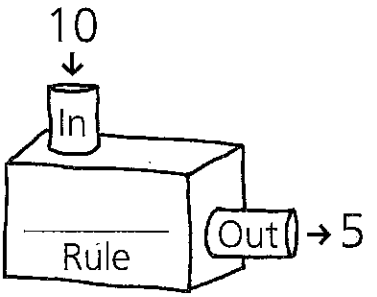
Complete each table. Then write the rule for that set. Each of your answers has a letter. Match the letter with its number in the code.

1.



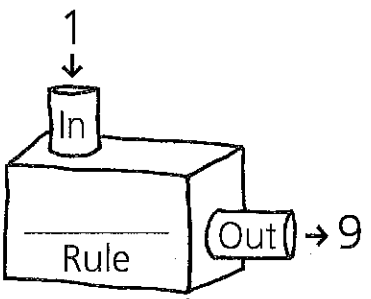
In	Out
5	15
7	21
R	27
11	33
13	S

2.



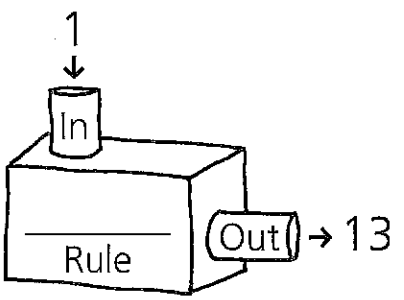
In	Out
66	33
60	30
56	H
48	W
42	21

3.



In	Out
4	36
7	63
10	90
13	F
16	144

4.



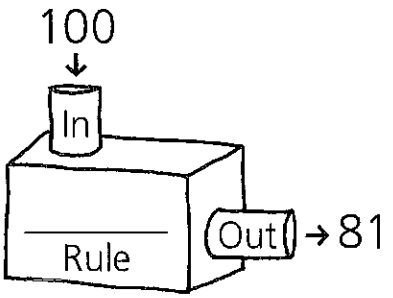
In	Out
20	32
25	O
30	42
35	47
40	A

Name _____

Why Did the Girl Eat Her Math Homework?

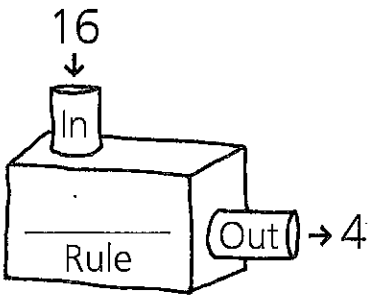
Note: Use with page 63.

5.



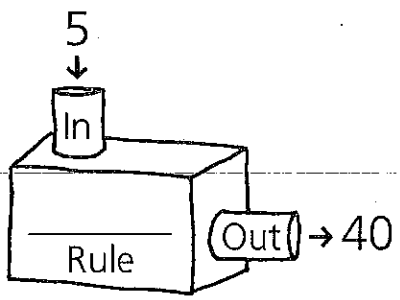
In	Out
89	70
80	61
70	D
59	K
47	28

6.



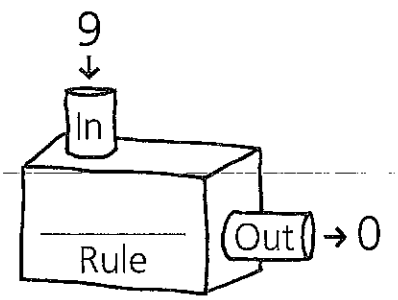
In	Out
20	5
36	9
52	T
68	17
84	C

7.



In	Out
10	80
12	96
14	P
16	128
18	144

8.



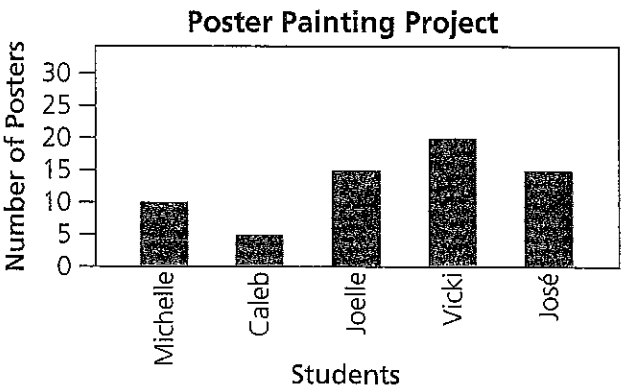
In	Out
99	90
96	87
92	E
87	I
81	72

28	83	9		13	83	52	21	28	83	9		39	52	78	51		78	13
24	52	39		52		112	78	83	21	83		37	117		21	52	40	83

Name _____

What Do You Call a Popular Perfume?

Ring the letter of the correct answer for each exercise. Write the letter in the box containing the exercise number in the code at the bottom of the page.



1.	How many posters did José paint?	**C** 20	**L** 15
2.	What was the greatest number of posters painted?	**A** 20	**E** 25
3.	Who painted the greatest number of posters?	**N** Michelle	**T** Vicki
4.	How many more posters did Vicki paint than Caleb?	**I** 10	**R** 15
5.	Which students painted the same number of posters?	**M** José and Joelle **D** Vicki and José	
6.	Each student was asked to paint at least 10 posters. How many more posters should Caleb paint?	**H** 0	**B** 5
7.	How many more posters did Vicki paint than José?	**S** 5	**T** 10
8.	What is the total number of posters painted?	**L** 65	**A** 75
9.	The group needs 100 posters. How many more posters do they need to paint?	**C** 25	**E** 35

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

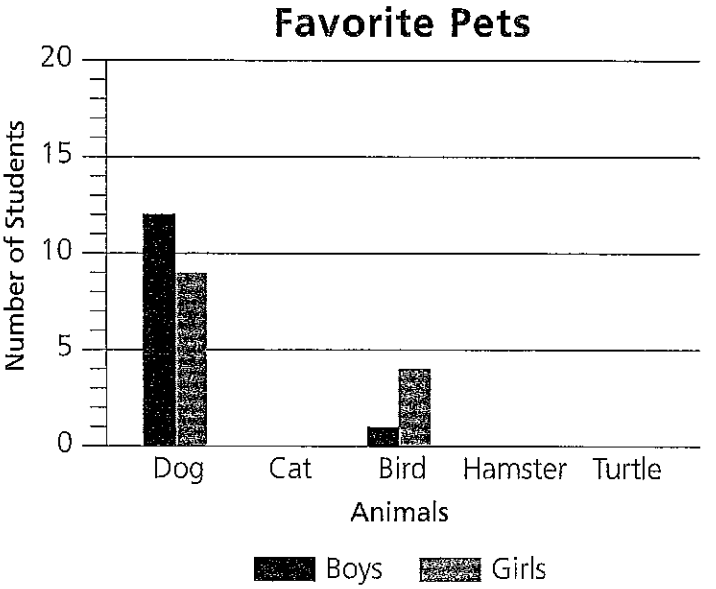
Name _____

What Is the Leading Cause of Dry Skin?

Use the information in the Tally Chart to complete the bar graph.

Tally Chart

	Boys	Girls
Dog	𝍸 𝍸 ||	𝍸 ||||
Cat	𝍸	𝍸 ||||
Bird	|	||||
Hamster	||||	||
Turtle	|||	|



Ring the correct answer. Then match the letter of the answer to the number of the exercise in the code.

1.	Counting the boys and girls together, what was the favorite pet?	**N**	cat	**S**	dog
2.	Counting the boys and girls together, what was the least favorite pet?	**O**	turtle	**A**	hamster
3.	How many students picked a dog as their favorite pet?	**E**	21	**I**	12
4.	How many girls named either a bird or a turtle as their favorite pet?	**O**	4	**L**	5
5.	How many more girls than boys picked a cat as a favorite pet?	**T**	4	**L**	5
6.	In all, how many students voted?	**T**	48	**W**	50

5	2	6	3	4	1

Name _____

What Did the Light Say When It Was Turned Off?

Use the data in the chart to find the answer to each exercise. Then find your answer in the code at the bottom of the page and write the letter of the exercise above it.

Test Scores

Name	Test 1	Test 2	Test 3
Margaret	87	83	94
Mateo	88	91	88
Deana	93	91	89
Jay	84	97	95

M Deana's mean score _____

H Jay's mean score _____

E The mean of Mateo's scores _____

D The range of Margaret's scores _____

T The range of Jay's scores _____

I Margaret's mean score _____

G The range of Deana's scores _____

A The mean of all of the scores _____

L The range of all of the scores _____

88	90	91	11	89	14	88	4	92	13	89	11

Name _____

An Interesting Fact

Answer each exercise. Then find each answer in one of the boxes at the bottom of the page and cross out the box. The boxes that remain will reveal an interesting fact.

Find the **median** for each set of data.

1. 1, 5, 9, 3, 7, 2, 4 _____

2. 22, 18, 12, 9, 14, 17, 20 _____

3. 39, 22, 57, 45, 48 _____

4. 52, 47, 41, 63, 59, 67, 58 _____

5. 65, 54, 71, 69, 63, 61, 74 _____

6. 105, 93, 101, 99, 119, 127, 110, 121, 94 _____

Find the **mode** for each set of data.

7. 6, 8, 8, 9, 5, 4, 8, 7, 5 _____

8. 20, 9, 11, 7, 15, 13, 15 _____

9. 78, 85, 100, 100, 95, 92, 78, 88, 100 _____

10. $23, $9, $13, $23, $15, $13, $15, $13 _____

11. 133, 121, 127, 131, 121, 127, 124, 121, 127, 130, 133, 121, 135 _____

12. $83, $96, $72, $91, $83, $72, $81, $83 _____

WHEAT 65	CORN 18	COFFEE $83	IS 9	WAS 58
AN 15	THE $72	FIRST 17	NUMBER $15	LAST 8
ONE 127	FIVE 100	FARM 4	CROP 63	FIELD $13
IN 48	THE 105	BRAZIL 121	AMERICA 59	COUNTRY 45

Name _____

How Far Were the Windows Open in Math Class?

Follow the directions in each box. There is more than one correct answer for each exercise. Find all of the possible answers.

1. 5, 6, 2 Multiply 2 of the numbers. Then add the third number to the product.	**2.** 2, 7, 8 Make 3-digit numbers. Use all 3 in each number you make.
3. 1, 6, 5, 9, 8 Add only 2 of the numbers. Find the largest sum. Find the smallest sum.	**4.** 1, 5, 7 Make the 4 largest numbers possible. Use all 3 digits in each number you make.
5. 4, 7, 3 Multiply 2 of the numbers. Then add the third number to the product.	**6.** 5, 7, 9 Add 2 of the numbers. Then multiply the sum by the third number.
7. 6, 7, 8, 9 Make the 4 smallest numbers possible. Use all 4 digits in each number you make.	

Possible answers for each exercise are grouped together. Ring the ones that are correct. Then write the letters above the numbers with a ring in order.

T	S	R	H	E		Y	I	W	G	E	R		E	O	P	E	N	J
32	36	18	16	17		751	157	571	175	715	517		287	872	728	782	278	827

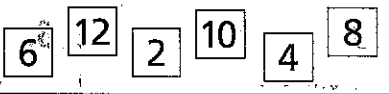
U	E	L	S	T		A	M	F		R	A	H	C		T	N	I	O	S	N
108	180	92	98	80		17	30	6		31	25	18	19		6,789	9,876	6,879	6,798	8,769	6,897

Name _____

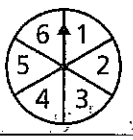
What Do You Get When You Cross a Cow with a Duck?

Ring the letter in the column that tells how likely it is for the event to occur. Then match the letter to the number of the exercise in the code below.

	Impossible	More Unlikely	Just as Likely as Unlikely	More Likely	Certain
1. The sun will rise in the morning.	M	R	A	S	N
2. The day just after Wednesday will be Friday.	E	T	D	I	F
3. It will rain tomorrow.	O	K	L	H	Y
4. You will find $20 on your way home from school.	Z	C	P	A	R

Without looking, you pick one of the number chips shown. 

5. You pick the number 10.	W	D	T	C	E
6. You pick an even number.	M	I	J	V	R
7. You pick a number less than 7.	O	F	S	G	A
8. You pick a number less than 50.	U	B	I	Q	M
9. You pick an odd number.	A	T	L	O	D

You spin a spinner. The spinner lands 

10. on an even number.	D	A	I	N	S
11. on a number greater than 1.	W	T	C	K	N
12. on a number less than 10.	M	P	E	I	U
13. on an odd number.	H	S	Q	R	L

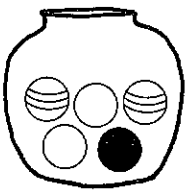
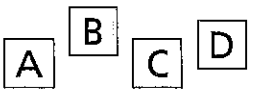
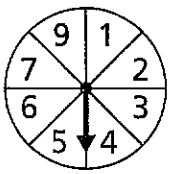
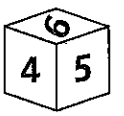
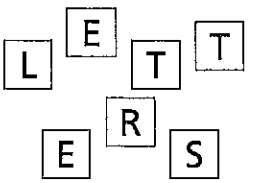
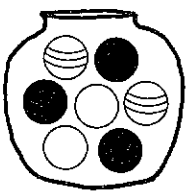
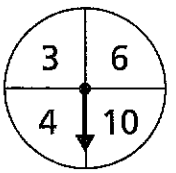
8	10	3	11	9	1	5	13	12	9	4	11	2	6	7

Name _____

What Insect Breathes Fire?

Determine the probability of each event and express it as a fraction. Find the answer in the code at the bottom of the page and write the letter of the exercise above it.

What is the probability...

D of picking a striped marble without looking?  _____	**N** of picking a **C** without looking?  _____
O of spinning an odd number?  _____	**Y** of tossing a 4?  _____
F of picking a **T** without looking?  _____	**A** that a person was born in a month that begins with the letter N? _____
R of picking a black marble without looking?  _____	**L** that a person was **not** born in a month that begins with the letter S? _____
G of spinning an even number?  _____	**A** that a person was born on the day of a week that begins with the letter W? _____

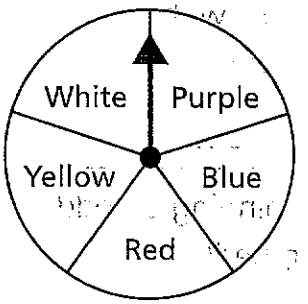
$\frac{1}{12}$	$\frac{2}{5}$	$\frac{3}{7}$	$\frac{1}{7}$	$\frac{3}{4}$	$\frac{5}{8}$	$\frac{1}{4}$	$\frac{2}{7}$	$\frac{11}{12}$	$\frac{1}{6}$

 Name _____

What Do Cowboys Wear When They Go to Work?

Express the probability of each event as a fraction.
Find the answer in the code at the bottom of the page
and write the letter of the exercise above it.

Find each probability if you spin the spinner once.



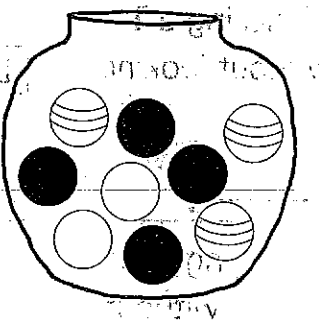
A Purple _____

G Red or white _____

C Not blue _____

H Yellow or blue or white _____

Find each probability if you choose one marble from the jar without looking.



I Striped marble _____

E White marble _____

D Black marble _____

S Black or white marble _____

R What is the probability that your birthday will fall on a Thursday or Friday next year? _____

N What is the probability of guessing the correct answer to a true or false question? _____

$\frac{2}{7}$	$\frac{1}{5}$	$\frac{1}{2}$	$\frac{4}{5}$	$\frac{3}{5}$	$\frac{4}{9}$	$\frac{2}{7}$	$\frac{2}{9}$	$\frac{6}{9}$	$\frac{6}{9}$	$\frac{3}{9}$	$\frac{1}{2}$	$\frac{2}{5}$