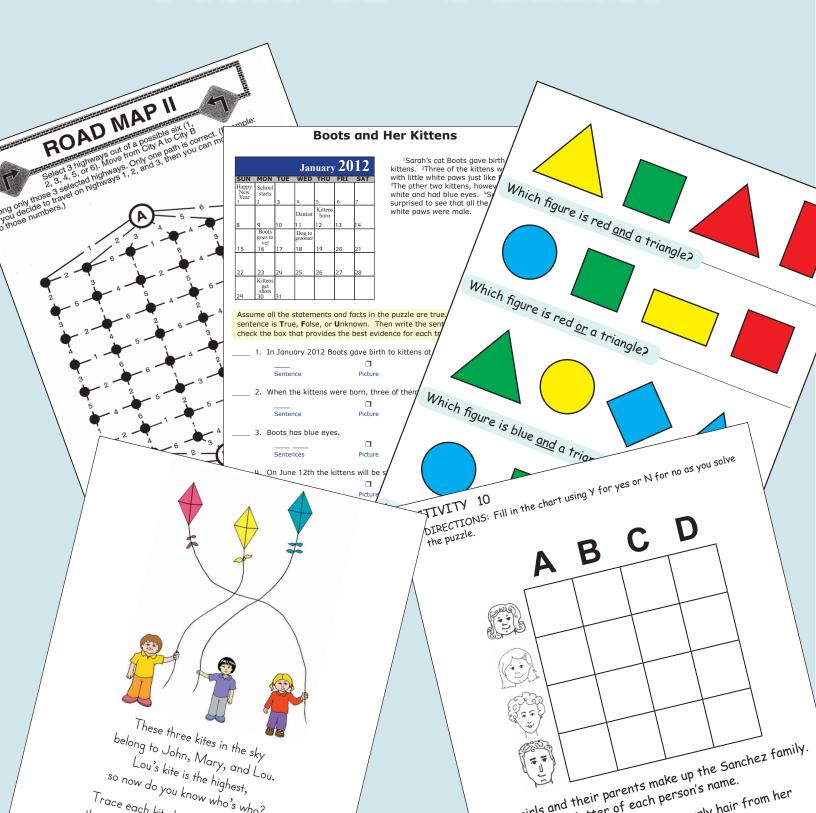


Critical Thinking PreK-12+ Puzzles



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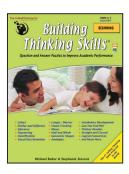




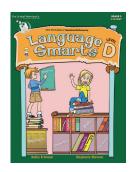
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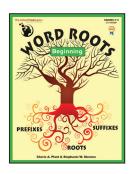
We design critical thinking into reading, writing, math, science, and social studies lessons so students carefully analyze what they are learning. Deeper analysis produces deeper understanding, which results in better grades and higher test scores. Over time, students who practice critical thinking learn to apply it throughout their education and life.

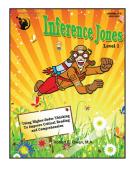
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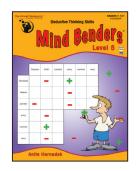




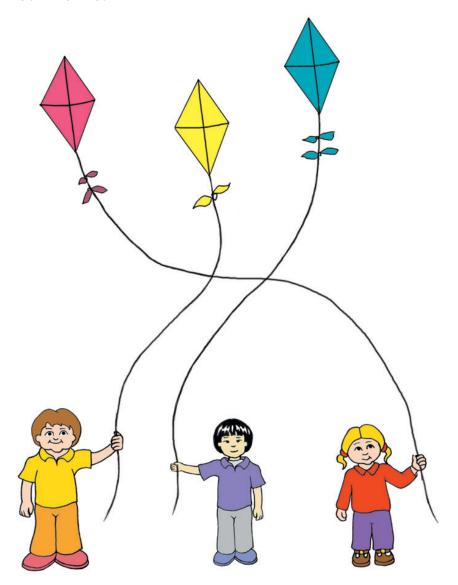
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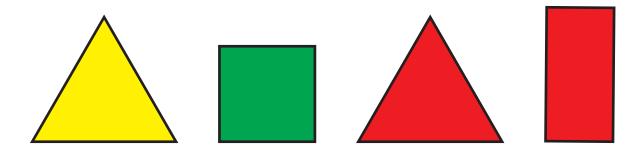
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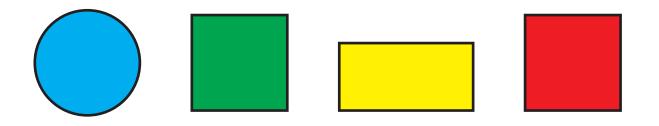
These three kites in the sky belong to John, Mary, and Lou. Lou's kite is the highest, so now do you know who's who?

Trace each kite back to the ground, then name each flyer that you found.

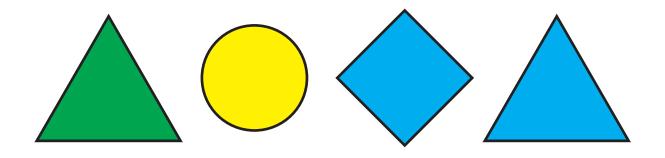




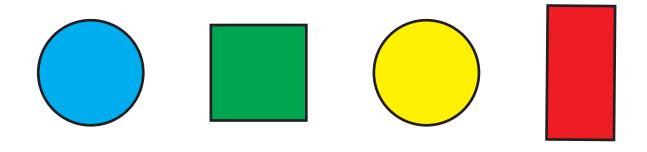
Which figure is red and a triangle?



Which figure is red or a triangle?



Which figure is blue and a triangle?

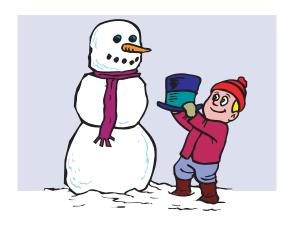


Which figure is blue or a triangle?

Gr. PreK

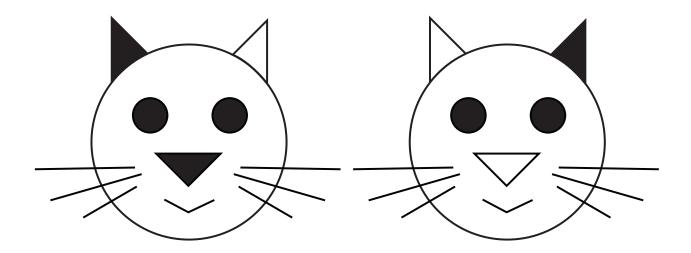
Which picture happened first? Which picture happened next? Which picture happened last?



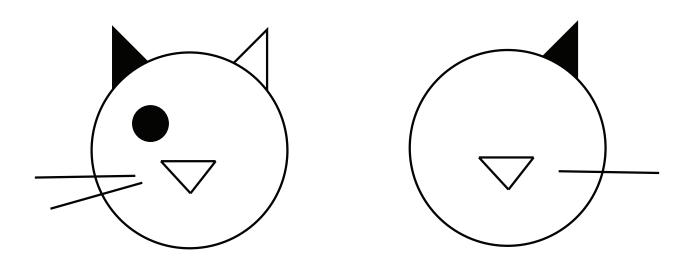




What will happen to the snowman when the air outside starts to get warm?



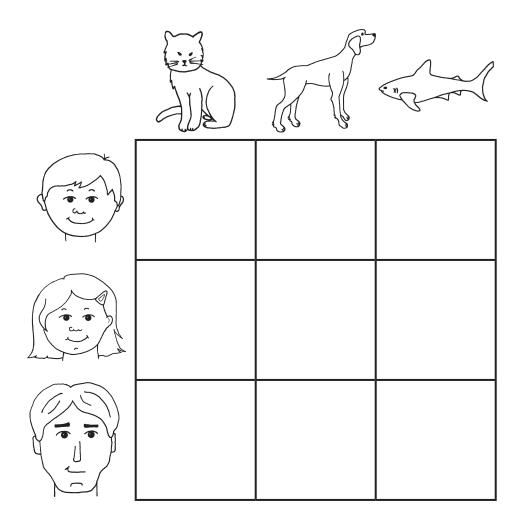
1. Look at each cat face above, then find its unfinished picture below. Use a pencil to draw in all the missing parts.



- 2. Circle the cat on the bottom row that has a black nose.
- 3. Color the cat on the bottom row that has a white nose, using three colors.

ACTIVITY 2

Directions: Fill in the chart using Y for yes or N for no as you solve the puzzle.



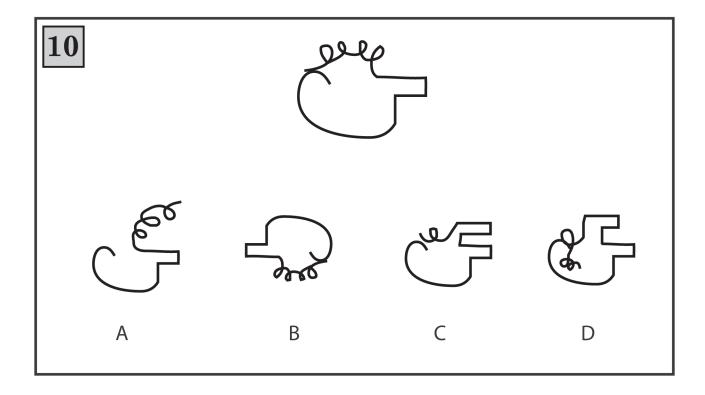
A boy, a girl, and their dad all have their own pets. Use the clues and the chart to find each one's pet.

- 1. The dad found his pet crying in a tree.
- 2. The boy's pet sleeps in the boy's bed every night.



FINDING THE CORRECT FIGURE

DIRECTIONS: Match the top figure to one of the bottom figures. The matching figure might be bigger, smaller, darker, turned on its side, flipped, or upside down.



A look on your face
That says you are glad;
I'm more than a grin
To show you're not sad.

What am I?

I slither through the grass To find some food I like; My fangs tell all creatures That I'm ready to strike.

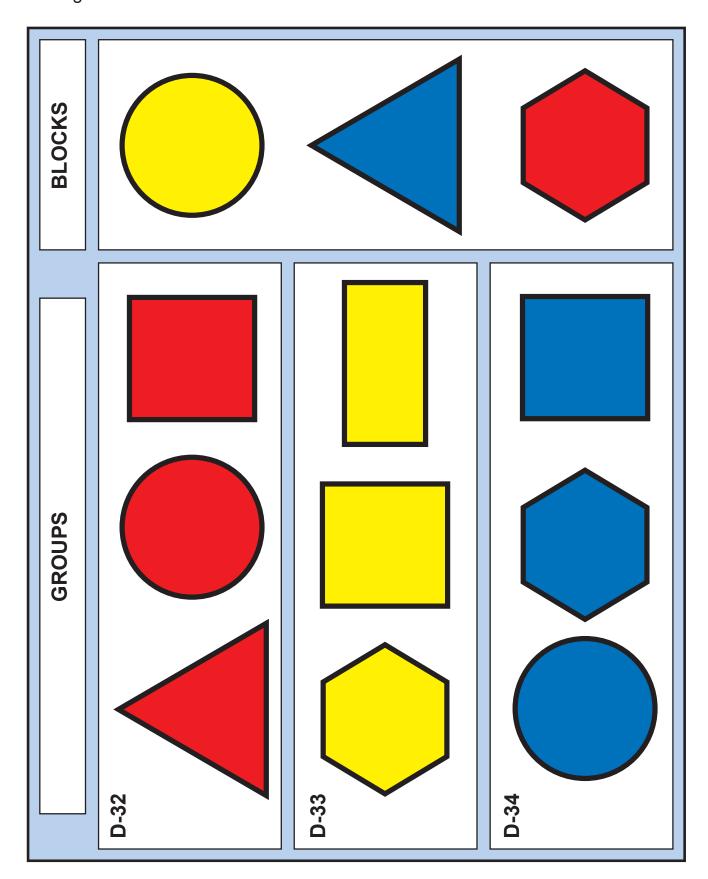
What am I?

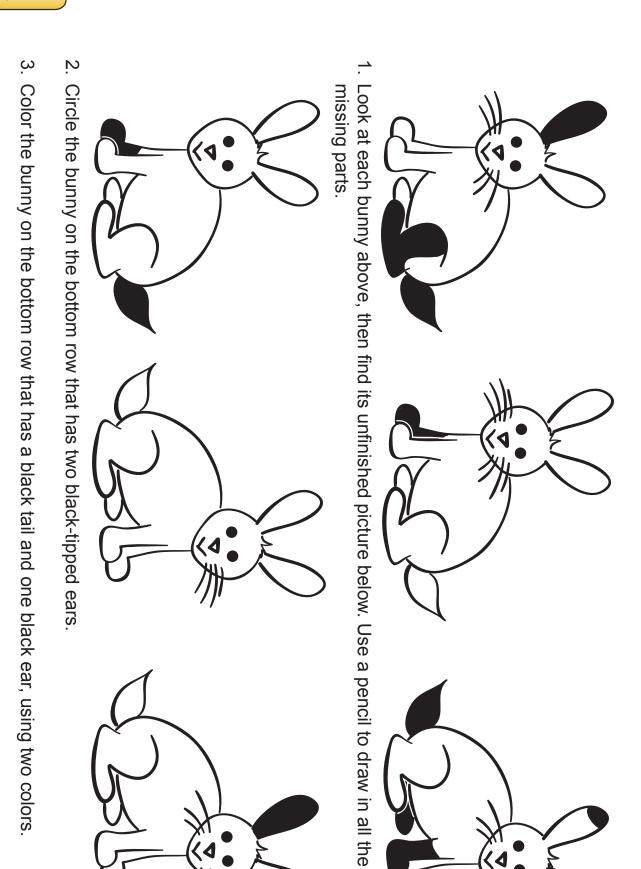
At first a quick sniff, But, no, I'm not through; Starts with a tickle And ends with achoo!

What am I?

DESCRIBING A GROUP—WHAT BELONGS?

DIRECTIONS: Draw a line from each block on the right to the group in which it belongs.





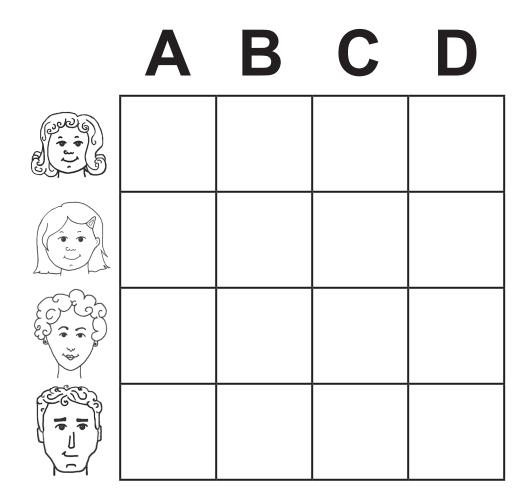
- 21. Mrs. Baker is Alyssa's mom. Mr. Baker is Alyssa's dad. Tim is Mr. and Mrs. Baker's son.
 - a. Can you tell from the story if Tim has a brother?
 - b. How is Alyssa related to Tim?

- 22. No birds have four legs. Barry is a bird.
 - a. Is it possible that Barry has four legs?
 - b. Is it possible that Barry cannot fly?
- 23. In Indiana, the corn is at least knee-high by the 4th of July. Suppose today's date is July 5th.

What follows from this?

ACTIVITY 10

DIRECTIONS: Fill in the chart using Y for yes or N for no as you solve the puzzle.

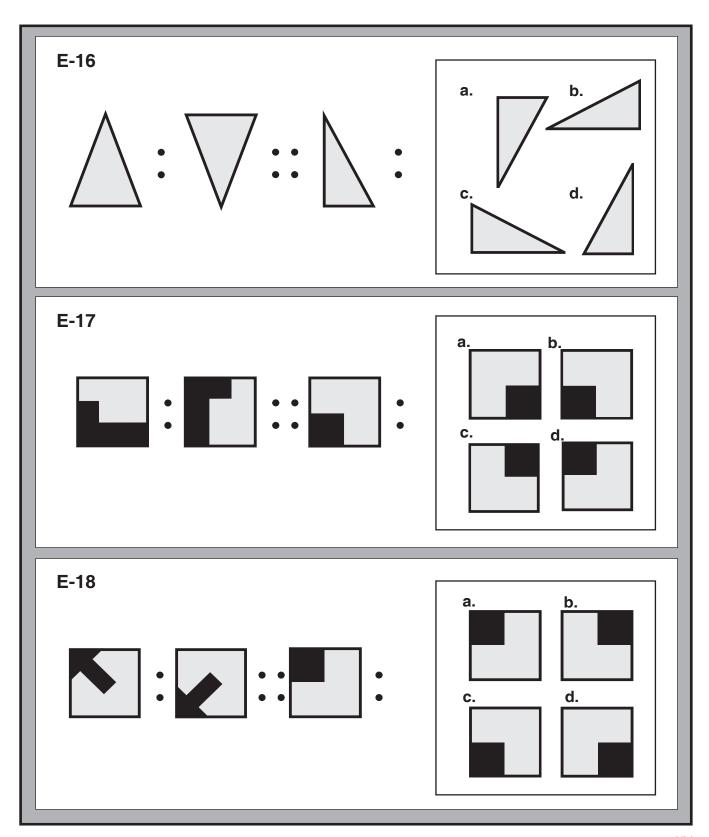


Two girls and their parents make up the Sanchez family. Find the first letter of each person's name.

- 1. People say Dona gets her curly hair from her father, Carlos.
- 2. Anita is younger than Bonita but older than Dona.

ANALOGIES WITH SHAPES—SELECT

DIRECTIONS: Circle the figure that completes the analogy.



I have a white shell, That's easy to crack; I'm good for breakfast, Or even a snack.

What am I?

For fireplace or patio,
My red blocks will look nice;
The pig who built his house of me,
Sure made that wolf think twice.

What am I?

Another word for lad, I'm younger than a man; With cow I ride a horse, With scout I lend a hand.

What am I?

Gr. 2-3

Trains

DIRECTIONS: Draw and color or write in the color for the missing pattern blocks in each train.

$$B = Blue \quad R = Red \quad Y = Yellow$$

Add three more cars to the train, following the same pattern.





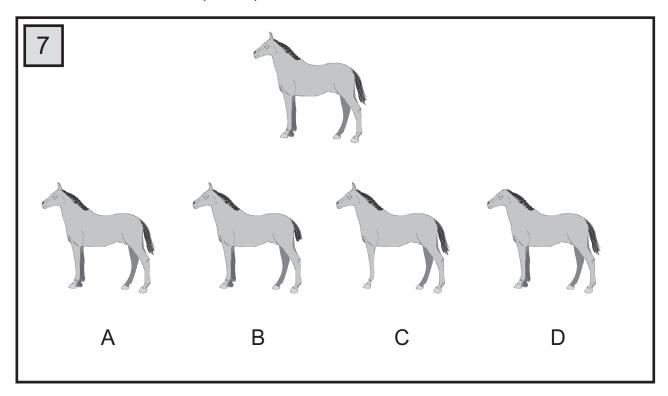


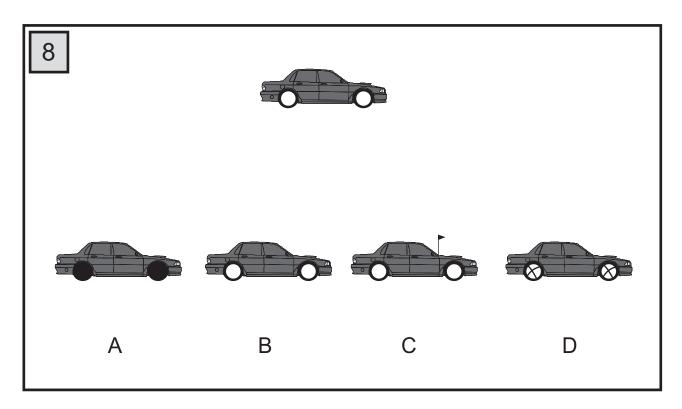
Fill in the blank spaces of the train, following the same pattern.

4. B B R R _ Y B _ R R Y _ B _ R R

FINDING THE MATCHING SHAPE

DIRECTIONS: Match the shape at the top to a form on the bottom row. The match must be the same size, color, and orientation.





REARRANGE LETTERS

DIRECTIONS

Use the letters at the top to fill in the chart so that words are formed and the sentence makes sense.

A shaded space in the chart shows the end of a word.

Except for the last line, the end of a line is not the end of a word unless there is a shaded space there.

When you have filled in the chart, answer the question asked.

PROBLEM

27.

	Н	0	Н	М	Е	Е	С	Н	I	I	Е	S	F	I	Е	Е
•		Т	I	R	E	S		Т	W	М	S	Т	I	М	V	0
		Т	W		М	U		Т		0				Т	W	S

SECRET WORD PUZZLES

- **9.** Use each list of clue words to find a three-letter solution word. Beside each clue word is the number of letters that word has in common with the solution. Write the solution in the blank beneath the column. (The solution is a real word. It is not a person's name. It has no repeating letters.) For more information, see page 40.
- a. TON (0) b. SAD (0) c. BEG (0)
 - FOX (2) FOX (2) FIR (2)
 - ITS (1) ARE (1) DUE (1)
 - FUN (1) FUN (1) FIN (1)
 - SIX (2) ROT (2) RUN (2)

LINE PUZZLES

- 25. Use the clues to solve each puzzle. For more information, see page 42.
 - a. Ron, Betsy, and Jurgen were the only ones waiting in line at a drinking fountain.
 - 1) The boys were not standing next to each other.
 - 2) Jurgen was ahead of Betsy.

Who was last in line?	

- b. Nick Reynaldo; his younger sister, Conchetta Reynaldo; and his friend Ray Wilson were all of different heights.
 - 1) The tallest person was not named Reynaldo.
 - 2) Nick was taller than Conchetta.

Who was the shortest?	

- c. Al, Rick, Karl, and Boris all missed some days of school last week because of illness.
 - 1) Al missed more days than Boris.
 - 2) Karl missed the most number of days.
 - 3) Boris missed more days than Rick did.

Who missed the least number of days?

Activity 29

Use the clues and the chart to determine the value of each letter, solve the cryptogram, and discover the famous quote.

10% of
$$100 = b$$

6% of $300 = e + b$
 $e - (s + 1) = h$
 $s < h$

	е	h	S	b
10				
8				
5				
2				

е	=	
h	=	
S	=	
b	=	

$$(11\% \text{ of } 400) - t = 32 12$$
 $t \div o = u \times 3$
 $\begin{pmatrix} c & o & u & t \\ & & & \\ &$

$$r \neq 3$$

 $n = 44 - 38$
 $r \times w \ge 27$
 $r \times w < 28$

Cryptogram (Parentheses separate double digits; they have no other meaning.) "(10)8 75(11)6g8 y14 3(11)6(12) (12)1 (12)58288 i6 (12)58319ld."

M(11)5(11)(12)m(11) G(11)6d5i

Activity 3

Use the clues and the chart to determine the value of each letter, solve the cryptogram, and discover the classic joke.

$$n - s = f$$
$$f < 5$$

	f	n	S	i
1				
2				
5				
6				

s = ____

i =

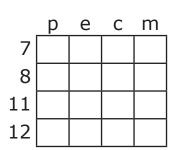
$$a + t = 12$$

 $a + h = 19$

h =

$$p = c + 4$$

 $m = c + 1$



Cryptogram (Parentheses separate double digits; they have no other meaning.)

W(10)93 25 9 14og'5 19vo423(12) 8u527? (10)2(11) (10)o(11)!

Boots and Her Kittens

January 2012										
SUN	MON	TUE	WED	THU	FRI	SAT				
Happy New Year	School starts									
1	2	3	4	5	6	7				
			Dentist	Kittens born						
8	q	10	11	12	13	14				
	Boots goes to vet		Dog to groomer							
15	16	17	18	19	20	21				
22	23	24	25	26	27	28				
29	Kittens get shots 30	31								

¹Sarah's cat Boots gave birth to five kittens. ²Three of the kittens were black with little white paws just like Boots. ³The other two kittens, however, were white and had blue eyes. ⁴Sarah was surprised to see that all the kittens with white paws were male.

Assume all the statements and facts in the puzzle are true. Write whether each sentence is **T**rue, **F**alse, or **U**nknown. Then write the sentence number(s) and/or check the box that provides the best evidence for each true or false answer.

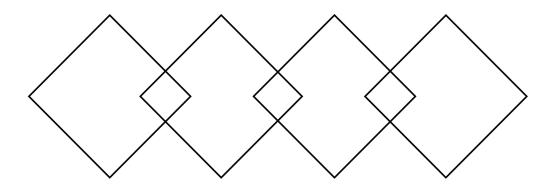
1.	In January 2012	2 Boots gave birth to kittens at 12:07 a.m			
	Sentence	Picture	Caption		
2.	When the kittens	were born, three of the	em looked like Boots.		
	Sentence	Picture	Caption		
3.	Boots has blue ey	es.			
	Sentences	Picture	Caption		
4.	On June 12th the	kittens will be six mon	ths old.		
	Sentence	Picture	Caption		
5.	None of the kitte	ns are female.			
	Sentences	Picture	Caption		

- A dozen eggs will make four omelets. 95.
 - a-c. How many eggs are needed to make
 - **a.** 8 omelets?
 - **b.** 1 omelet?
 - c. 9 omelets?
 - **d–f.** How many omelets can be made from
 - d. 2 dozen eggs?
 - **e.** 9 eggs?
 - f. 21 eggs?
- 96. A concrete pipe has an outside diameter of 20 inches. The pipe is 2 inches thick. What is its inside diameter?

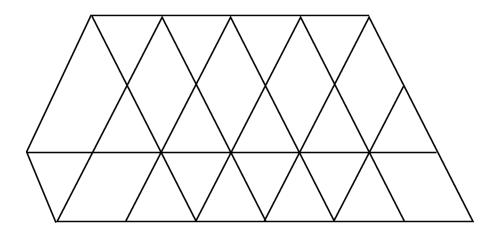
DARE DARE

Figure This! *

1. How many squares can you find in this figure? _____



2. How many triangles can you find in this figure? _____



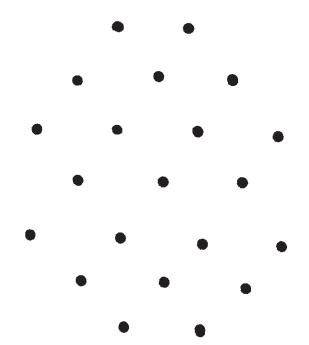
- A number below a diagonal line shows the sum for the squares underneath.
- A number above a diagonal line shows the sum for the squares to the right.
- You may use only the digits 1 through 9 (one digit per square).
- · You may not use any digit more than once to get a sum.

(Three answer digits are given.)

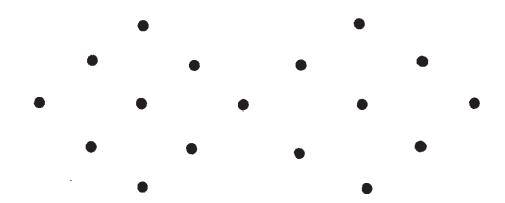
13.

- **56.** You clip a coupon from the newspaper which offers you a \$1 refund from the manufacturer if you mail it to them with a label from their product. You buy the product for \$3.23 plus 4% sales tax. You mail the coupon and label to the manufacturer at a cost of 15¢ for the stamp and 1¢ for the envelope. The manufacturer sends you a check for \$1.
 - a. How much did it cost you to send the coupon to the manufacturer?
 - **b.** How much profit did you make from sending the coupon to the manufacturer?
 - c. How much sales tax did you pay on the product?
 - **d.** How much (total) did you pay for the product at the store?
 - e. What percent of the total you paid was your profit?
 - f. How much did the product end up costing you?
 - **g.** What percent of the original sale price (including tax) was your actual cost of the product?

Using only eight lines, see if you can cover the dots below. Here are the rules: do not lift your pencil, trace each line only once, and touch each dot only one time!

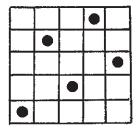


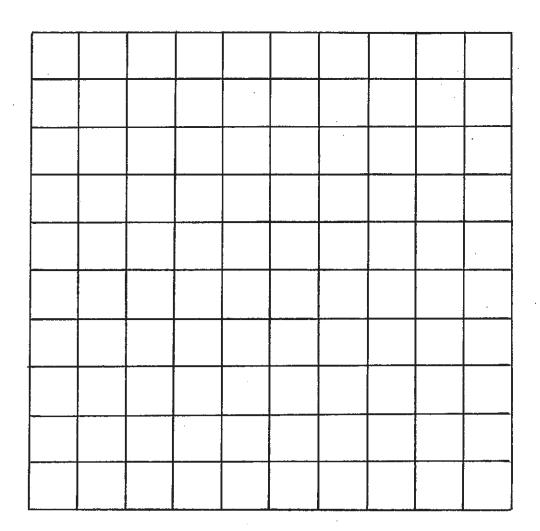
The dots below can be covered using seven and only seven lines. See if you can do it without lifting your pencil, without tracing a line more than once, and without touching a dot more than once.



Place 10 dots in the following 10X10 figure so that there will be no more than one dot per row, column, or diagonal.

Example: Place 5 dots in the following 5X5 figure so that there will be no more than one dot per row, column, or diagonal.







THE KONIGSBERG BRIDGE

The city of Konigsberg, in East Prussia, is located on the banks and two islands of the river Pregel. The parts of the city were connected by seven bridges as shown below. Is it possible to walk through all the bridges only once? (You are not allowed to swim, nor may you run or ride!)

A famous mathematician, Leonhard Euler (1707–83), wrote about this puzzle. The city of Konigsberg in the former Soviet Union was later known as Kaliningrad. You might want to see if you can find this city on a map or in an atlas.

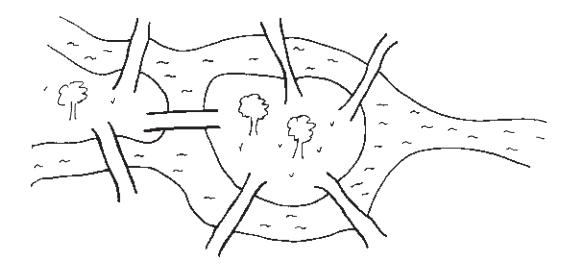
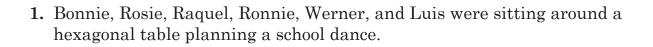
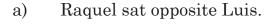


Table Logic

DIRECTIONS: Using the clues given, write the name of each person on the line indicating where they are seated. In the clues, "opposite" means that you can draw a direct line through the center of the table from one person to another.





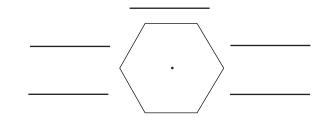


- b) Bonnie sat opposite Ronnie.
- c) Werner sat opposite Rosie.
- d) Ronnie sat to the left of Raquel.
- e) Rosie sat to the right of Raquel.

Where did each person sit?

2. Ramon, Chio, Karl, Klaus, Henry, and Li sat around a hexagonal table playing memory games.

a) Ramon sat opposite Henry.



b) Karl sat opposite Li.

c)

d) Klaus sat to the left of Karl.

Karl sat to the left of Ramon.

Where did each person sit?

73. Which figure does not belong with the other four?









D.



E.

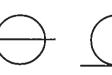
74. Which figure does not belong with the other four?



A.



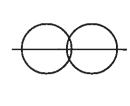
B.



C.



D.



E.

75. In the following series, fill in the question mark with the correct number.

120

60

20

5

?

1

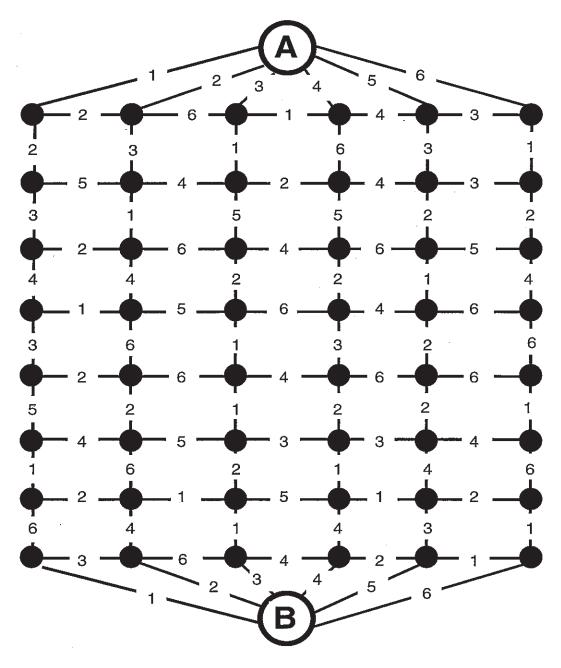


ROAD MAP II



Select 3 highways out of a possible six (1, 2, 3, 4, 5, or 6). Move from City A to City B

along only those 3 selected highways. Only one path is correct. (Example: If you decide to travel on highways 1, 2, and 3, then you can move only to those numbers.)



3 highways used = ___

DIRECTIONS

Each problem is given in the form of a chart.

The words for the last two columns are listed (by column, in alphabetical order) below the chart.

Each line of the chart is a small problem by itself.

For each line, read the first two words and decide how they are related. Then find a third and fourth word (from the bottom) that are related in the same way.

origin	destination	
expand	grow	
help	meddle	
professional	amateur	
quiet	noisy	

Column 3: assist, contract, reserved, start, veteran

Column 4: beginner, end, exuberant, interfere, shrink

CROLOSTWD

WEIGHING PROBLEM

PROBLEM

137. You have six balls, all of which look exactly the same.

Five of them weigh the same, but the sixth one is slightly lighter or heavier.

You have a balance scale. How can you find the odd ball in at most three weighings?



TELEPHONE CODE PUZZLES

14. Use the telephone buttons to decode the words in each category. For more information, see page 42.

a. 2874 BUSH

b. 466837	
-----------	--

c. 070020	c.	878626	
-----------	----	--------	--

_1	732426		
α	/ 3 / 4 / 1	า	

e.	5462656	

766738358

AMERICAN STATES

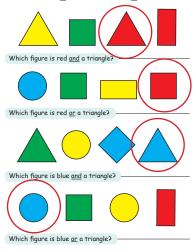
- 4692 _____ g.
- h. 62463
- i. 526727 _____
- 4 3 6 7 4 4 2 _____
- 45546647 _____ k.
- 26663284288 _____

Answers

Can You Find Me? PreK (p. 1)

Mary, pink; Lou, blue; John, yellow

Building Thinking Skills® Beginning (p. 2)



Building Thinking Skills® Beginning (p. 3)

Which picture happened first? Which picture happened next? Which picture happened last?







What will happen to the snowman when the air outside starts to get warm?

The snowman will start to melt.

Thinker Doodles Beginning (p. 4)



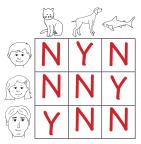
 Look at each cat face above, then find its unfinished picture below. Use a pencil to draw in all the missing parts.



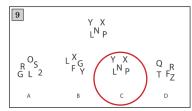


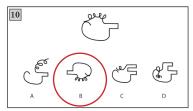
- 2. Circle the cat on the bottom row that has a black nose.
- 3. Color the cat on the bottom row that has a white nose, using three

Mind Benders® Level 1 (p. 5)



Visual Perceptual Skill Building® Book 1 (p. 6)

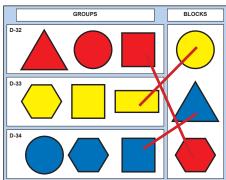




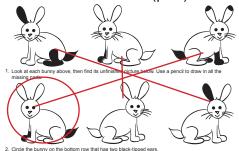
Dr. DooRiddles A2 (p. 7)

smile snake, rattlesnake sneeze

Building Thinking Skills® Primary (p. 8)



Thinker Doodles A1 (p. 9)

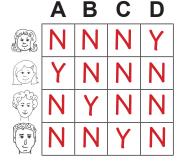


3. Color the bunny on the bottom row that has a black tail and one black ear, using two colors

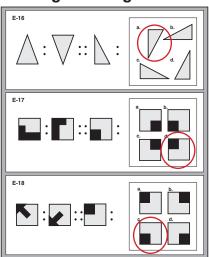
Mind Benders® Verbal (p. 10)

- 21. a. No
 - b. Alyssa is Tim's sister.
- 22. a. No
 - b. Yes, Barry could be a baby bird, an ostrich, or a bird with a broken wing.
- 23. The corn in Indiana is at least knee-high.

Mind Benders® Level 2 (p. 11)



Building Thinking Skills® Level 1 (p. 12)



Dr. DooRiddles A3 (p. 13)

egg brick (s) boy

Think A Minutes A1 (p. 14)

Trains

DIRECTIONS: Draw and color or write in the color for the missing pattern blocks in each train.

 $B = Blue \quad R = Red \quad Y = Yellow$

Add three more cars to the train, following the same pattern.

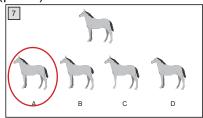
- 2. RYBRYB \mathbb{A}
- 3. AY OY Y Y A B B B B

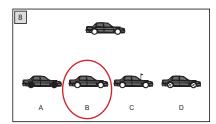
Fill in the blank spaces of the train, following the same pattern.

4. B B R R Y Y B B R R O Y A A A

Visual Perceptual Skill Building® Book 2

(p. 15)





Cranium Crackers Book 1 (p. 16)

How much is five times two times three times two? (60)

Dr. Funster's Creative Thinking Puzzlers A1

- (p. 17)
- a. FIX
- b. FOR
- c. FUR

Dr. Funster's Creative Thinking Puzzlers A1

- (p. 18)
- a. Ron
- b. Conchetta
- c. Rick

Crypto Mind Benders® Famous Quotations (p. 19)

"Be the change you want to see in the world."
-Mahatma Gandhi

	е	h	S	b
10	_	_	_	+
8	+	_	_	_
5	_	+	_	_
2	_	_	+	

Answers: e = 8; h = 5; s = 2; b = 10 If 10 percent of 100 equals b, b must be 10. Six percent of 300 equals e plus b; therefore, e must be 8 for the equation to be true. If e must be 2, and h must be 5 for the equation to be true.

	С	0	u	t
12		_	_	+
7	+	_	_	_
4	_	_	+	_
1	_	+	_	_

Answers: c = 7; o = 1; u = 4; t = 12If 11 percent of 400 minus t equals 32, t must be 12 for the equation to be true. If t divided by o equals u times 3, o must be 1, and u must be 4 for the equation to be true. c is then 7.

	а	W	r	n
11	+	_	_	
9	_	_	+	_
6	_	_	_	+
3	_	+	_	

Answers: a = 11; w = 3; r = 9; n = 6 n equals 44 minus 38; therefore, n is 6. If r times w is greater than or equal to 27, but less than 28, r times w must be 27; therefore, r and w must be either 3 or 9 for the equation to be true, and since r is not 3, r must be 9, and w must be 3. a is then 11.

Crypto Mind Benders® Classic Jokes (p. 20) What is a frog's favorite music? -Hip hop!



Answers: f = 1; n = 6; s = 5; i = 2If n minus s equals f, and f is less than 5, then n must be 6, s must be 5, and f must be 1 for the equation to be true. i is then 2.



Answers: a = 9; t = 3; h = 10; r = 4If a plus t equals 12, then a and t must be either 3 or 9 for the equation to be true. If a plus h equals 19, a and h must be either 9 or 10 for the equation to be true; therefore, a must be 9, the only number used in both equations. Therefore, t must be 3, and t must be 10. t is then 4.



Answers: p = 11; e = 12; c = 7; m = 8If p equals c plus 4, and m equals c plus 1, pmust be 11, c must be 7, and m must be 8 for the equations to be true. e is then 12.

Smarty Pants Puzzles™ Level 1 (p. 21)

- 1. U; There is not enough evidence. While Boots gave birth to kittens in January 2012, we do not know what time this occurred.
- 2. T; 2; Three of the kittens had black fur with white paws "just like Boots." This means that Boots also had black fur with white paws.
 - Thus, the kittens looked like Boots. Note that the statement does not say that the kittens looked exactly like Boots, meaning identical in every aspect.
- U; There is not enough evidence. We are not told the color of Boots's eyes. Just because two of the kittens have blue eyes does not mean that Boots also has blue eyes.
- 4. F; picture; The kittens were born on January 12th. June 12th occurs five

months later. So the kittens would be five months old on June12th, not six months old.

5. T; 2, 3, 4; All of the kittens are male. We are told that all the kittens with white paws are male (sentence 4), and since all the kittens have white paws (sentences 2 and 3), all the kittens must be male.

Math Word Problems Book 1 (p. 22)

- 95. a. 2 dozen
 - b. 3
 - c. 27
 - d. 8
 - e. 3
 - f. 7

96. 16 inches

Think-A-Grams A1 (p. 23)

Double Dare

Think A Minutes B1 (p. 24)

- 1. 7
- 2. 36

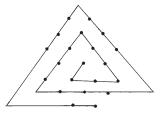
CrossNumber Math Puzzles C1 (p. 25)

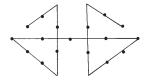
***		***						***			
**	9	1	***	9	4		6	4	3	1	Z
	2	5	3	4	1		3		7	4	5
	4	2	1	繎	2	3	4	1	▓	8	9
	1	3	2		3	8	▓	3	4		***
			9	7		9	7	***	8	7	9
	9	7		8	9		6			9	5
	8	6	7	鼺	2	1	***	8	3		
	***	***	9	4		2		羉	6	3	7
	Z	4		1	5	4	2	▓	2	8	4
	3	1	2	5	4		8	6	9	5	7
	1	2	4	3	6		7	9		1	Z

Math Word Problems Book 2 (p. 26)

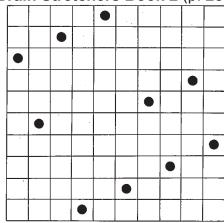
56. \$36,144.75

Brain Stretchers Book 1 (p. 27)





Brain Stretchers Book 2 (p. 28)



Math Ties B1 (p. 29)

Unless you swim the channel or jump (instead of walk) across bridges, etc., there is no solution.

Think A Minutes C2 (p. 30)

(Note that you are correct if you show the arrangements rotated but in the same relative positions.)





Brain Stretchers Book 3 (p. 31)

73. E

In each of the other figures, there is one line fewer in the middle than the number of sides the figure has. E has 5 lines and 5 sides.

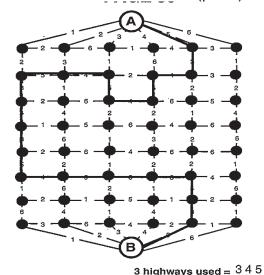
74. B

If just one circle appears in a figure, the line touches the circle only at the outer edge of the circle. If two interlocking circles appear in a figure, the line runs all the way through the figure. B has one circle with a line running through it instead of touching just the outer edge of the circle.

75. 1/6

The series progresses like this: 1/2 of 120 is 60 1/3 of 60 is 20 1/4 of 20 is 5 1/5 of 5 is 1 and the next would be 1/6 of 1, which is 1/6.

Brain Stretchers Book 4 (p. 32)



Cranium Crackers Book 3 (p. 33)

start, end / contract, shrink / assist, interfere / veteran, beginner / reserved, exuberant

Think-A-Grams B1 (p. 34)

Lost in the crowd

Cranium Crackers Book 4 (p. 35)

Put two balls in each pan. The scales either (1) balance or (2) don't balance.

Suppose (1). Remove three of the four balls weighed and put one of the two unweighed balls in the empty pan. If the scales balance, the odd ball is the sixth ball. If they don't 200 balance, the odd ball is the one that was added.

Suppose (2). Then the odd ball is one of the four weighed. Remove the two balls from one of the pans and lay them aside. Transfer a ball from the other pan to the empty pan. Either the scales now (3) balance or (4) don't balance.

Suppose (3). Then the odd ball is one of the two removed. See "Final Weighing" below.

Suppose (4). Then the odd ball is one of the two not removed. See "Final Weighing" below.

Final Weighing: The odd ball is known to be one of two particular balls. Put one of these in one pan, and put one of the other four balls (known to be of normal weight) in the other pan. If the scale balances, the odd ball is the one (of the two suspects) not weighed this time. If the scale doesn't balance, the odd ball is the one (of the two suspects) weighed this time.

Dr. Funster's Creative Thinking Puzzlers C1 (p. 36)

- (a) Bush, (b) Hoover, (c) Truman, (d) Reagan,
- (e) Lincoln, (f) Roosevelt,
- (g) Iowa, (h) Maine, (i) Kansas,
- (j) Georgia, (k) Illinois, (l) Connecticut