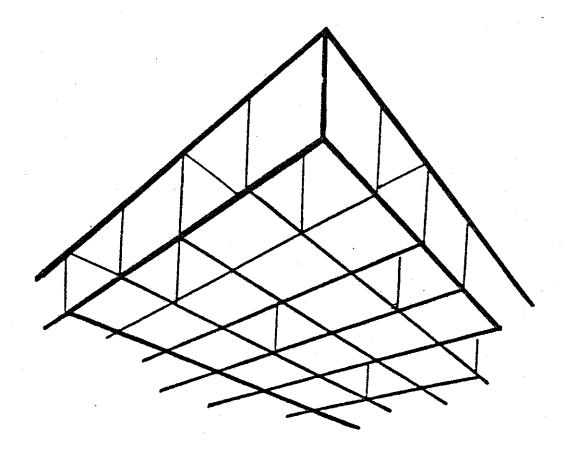
×a

More Unusual Problems

Name



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These	are the	4 boys:	Bill	Tom	Ed	Pete			·	
These	are the	4 leagu	es: ind	oor soccer	outdoor	soccer	indoor	hockey	outdoor	
	These ar	e the i	acts:	Each boy	plays in a	differe	nt league	2.		
				Bill play	s indoors.					
				Tom <u>doesn</u>	<u>'t</u> play hoo	ckey.				
				Ed doesn'	t play out	doors an	d he does	sn't play	soccer.	
	What lea	ague do	es each bo	y play in?	(Circle	your anw	ers)			
	Bill:	indoor	soccer	outdoor	soccer	indoor	hockey	outdoor	hockey	
	Tom:	indoor	soccer	outdoor	soccer	indoor	hockey	outdoo	· hockey	
	Ed:	indoor	soccer	outdoor	soccer	indoor	hockey	outdoo	hockey	
	Pete:	indoor	soccer	outdoor	soccer	indoor	hockey	outdoor	hockey	
				ű.	basketball indoor lea		an outdo	or league	• ,	
How m	any leag	ues are	there? _		in the first state			•		
These	are the	facts:	The	boys are c	alled A, B	, C, and	i so on.			
	Each boy plays on a different league.									
					asketball.					
					play socce					
			Α, Β	, and E pl	ay indoors	•				
Which	league	does ea	ch boy pla	y in?	Α					
					В		· · · · · · · · · · · · · · · · · · ·	 	- 	
					C	 			<u>ieroan</u>	
					D			,		
					_					

hockey

There are 4 girls:

Ann

Bonny

Carla

Doris

There are 4 days:

Monday

Tuesday

Wednesday

Thursday

There are 4 sports:

Bicycling

Swimming

Volleyball

Horseback Riding

These are the facts:

Each girl takes one lesson a week in her sport.

Each girl plays a different sport.

Bonny takes lessons on Tuesday and doesn't take swimming.

Ann takes volleyball and doesn't take lessons on Monday.

Doris takes lessons on Wednesday and doesn't take bicycling or swimming.

Who took what sport on what day? (Circle your answer)

Day

Sport

Tue Wed Ann: Mon Thur Fri Bonny: Mon Tue Wed Thur Fri Carla: Mon Tue Wed Thur Fri Mon Tue Wed Doris: Thur Fri

Bicycle Swimming Volleyball Horseback riding
Bicycle Swimming Volleyball Horseback riding

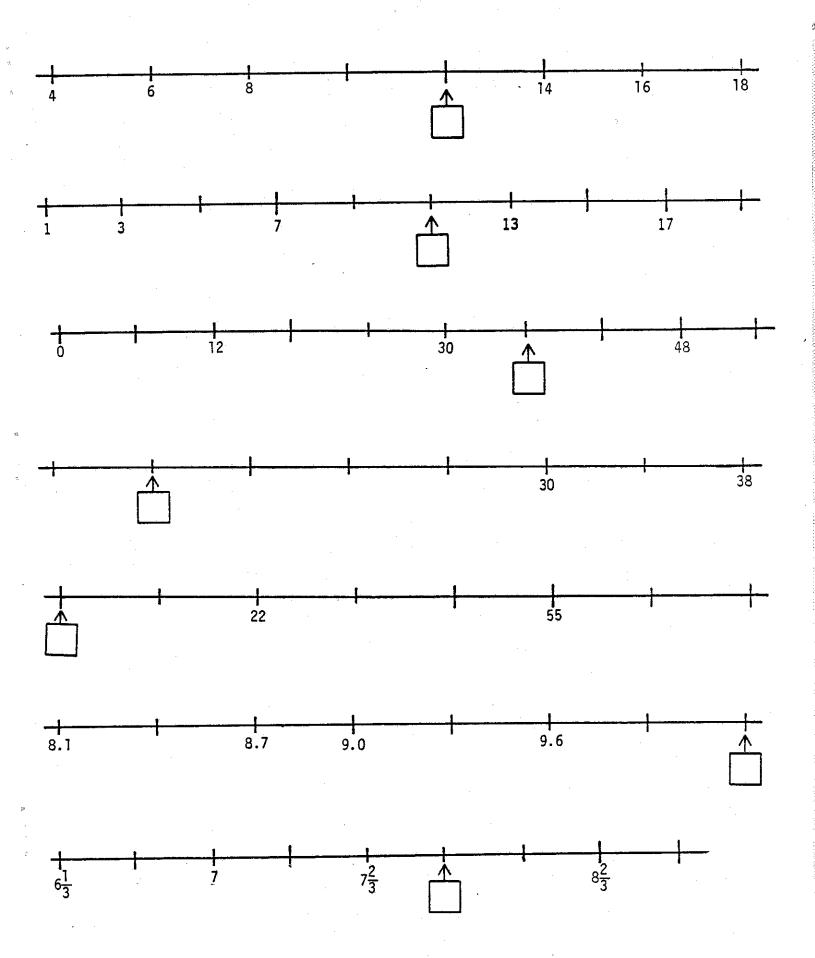
Bicycle Swimming Volleyball

Horseback riding

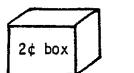
Bicycle Swimming Vo

Volleyball Horseback riding

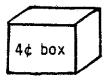
$$11 \times 273 = 3,003$$



-	These	are	the
1.	boxes	of (candy:









These are the girls: Maria, Carol, Helen, Jane

These are the facts:

Each girl chooses a box and buys every candy in the box.

Each girl chooses a different box than the other girls.

Maria chooses the 4¢ box. She could spend 4¢ or 8¢ or 12¢ or 16¢, and so on.

Then Jane spends exactly 9¢. Which box did Jane buy?

Then Carol spends exactly 15¢. Which box did Carol buy?

Which box did Helen buy?

2. These are the boxes:













Andy chooses a different box than Bill.

No matter how many candies are in their boxes:

Andy couldn't spend exactly 35¢.

Bill couldn't spend exactly 50¢.

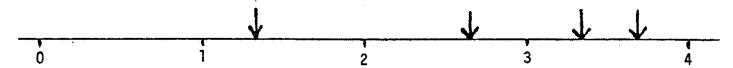
Both Andy and Bill couldn't spend exactly 12¢.

Which box did Andy choose?

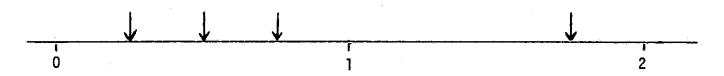
Which box did Bill choose?

	ints time there are many, many boxes.
	Ed is choosing a box.
	He chooses a box and looks inside.
	It has more than 1 candy and he has to spend exactly 18¢.
	Which box did he choose?
	Three friends go shopping: Bill, Len and Alice
	There are two boxes: Blue and Green
	If Bill buys a blue box, he also buys a green box. He does not buy a green box. Does he buy a blue box? Yes No Can't tell
	(Circle your answer)
	Len buys a blue box or a green box. He does not buy a blue box.
	Does he buy a green box? Yes No Can't tell (Circle your answer)
	Alice doesn't buy both a blue box and a green box. She buys a blue box.
-	Does she buy a green box? Yes No Can't tell (Circle your answer)

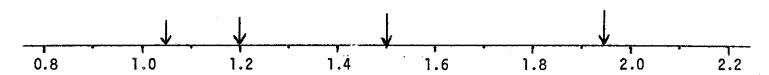
Circle the arrow that points to $3\frac{1}{3}$ on the number line below.



Circle the arrow that points to $\frac{1}{4}$ on the number line below.



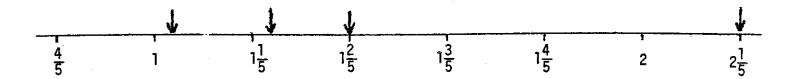
Circle the arrow that points to $1\frac{1}{2}$ on the number line below.



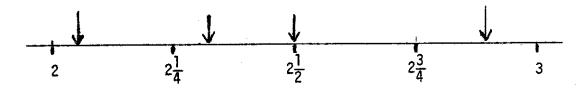
Circle the arrow that points to 2.3 on the number line below.



Circle the arrow that points to 1.25 on the number line below.



Circle the arrow that points to 2.05 on the number line below.



Complete the sentences:

$$\frac{2}{3} \times 1 = \boxed{}$$

$$\frac{1}{2} + \boxed{ } = 1$$

$$\frac{1}{2}$$
 X = 10

$$\frac{1}{4} + \boxed{} = \frac{1}{4}$$

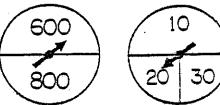
$$1 - \frac{3}{4} = \boxed{}$$

$$\frac{1}{2} \div 2 = \boxed{}$$

$$\frac{3}{5} \div \boxed{} = 1$$

$$\frac{1}{5} - \boxed{} = 0$$

Spin all three spinners at the same time.
Your score is the total from all three spinners.



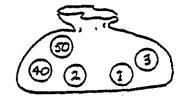


What are the possible total scores? 625.

Start at zero.
Count by some number.
End up at 60.

What could you be counting by? <u>5.</u>

Close your eyes.
Pick out three balls.
Add to get a total score.



What are the possible total scores? 93,

4 Multiple of 2
Multiple of 3
Smaller than 50

For what numbers are all three statements true? 24,

Digits must add to 5.

Between 200 and 1000

What are the possible numbers? 3/1,