

TEAM.....

**#1**

**Apple Picking.** If you took 3 apples from a basket that held 13 apples, how many apples would you have?

**#2**

**Swiss barber.** Why would a barber in Geneva, Switzerland rather cut the hair of two Frenchmen rather than the hair of one German?

**#3**

**Butcher.** Paul's height is six feet, he's an assistant at a butcher's shop, and wears size 9 shoes. What does he weigh?

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## #4

**Ambiguous Dates.** In some countries a date such as July 4<sup>th</sup>, 1971 is often written 7/4/71, but in other countries the month is given second and the same date is written 4/7/71. If you do not know which system is being used, how many dates in a year are ambiguous in this two slash notation?

## #5

**How did he know?** A customer in a restaurant found a dead fly in his coffee. He sent the waiter back for a fresh cup. After taking one sip, he shouted, "This is the *same* cup of coffee I had before!" How did he know?

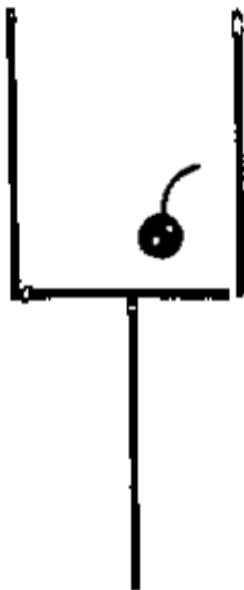
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## #6

**Counting earrings.** In a certain African village there live 800 women. Three percent of them are wearing one earring. Of the other 97%, half are wearing two earrings, half are wearing none. How many earrings all together are being worn by the women?

## #7

**Cocktail Cherry.**



Examine the configuration of matches that form the cocktail glass: it looks like the diagram opposite. The problem is to move only two matches to new positions so that the glass is re-formed in a different position and the cherry is *outside* the glass. The orientation of the glass can be altered (ie upside down) but the formation and shape of the glass must be as illustrated.

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## #8

**Three errors.** Among the assertions made in this problem, there are three errors. What are they?

a.  $2 + 2 = 4$

b.  $4 \div \frac{1}{2} = 2$

c.  $3\frac{1}{5} \times 3\frac{1}{8} = 10$

d.  $7 - (-4) = 11$

e.  $-10(6 - 6) = -10$

## #9

**A Man in an Elevator.** A man who lives on the 10th floor takes the elevator down to the 1st floor every morning and goes to work. In the evening, when he comes back; on a rainy day, or if there are other people in the elevator, he goes to his floor directly. Otherwise, he goes to the 7th floor and walks up 3 flights of stairs to his apartment. Can you explain why?

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## #10

**Heads and Tails.** Please note the vertical line on this paper and the three pence pieces. The challenge is to position the three pennies in such a way that the surfaces of the two heads are wholly to the right of the line and the surfaces of two tails are wholly to the left of the line.





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## #12

**The Word Square.** Each word in the grid appears both horizontally and vertically. Here is an example:

C	U	B	E
U	G	L	Y
B	L	U	E
E	Y	E	S

Your challenge is to use the following letters

A A E E I I M M P P T T

to complete this grid with valid words.

L			
	D		
		A	
			E

## #13

**Trapped!** There is a room with no windows, doors, or any sort of opening, the walls are solid steel 10 feet thick, and you are trapped inside, left only with a saw and a table.

How do you escape?

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## #14

**Going Viral.** A Petri dish hosts a healthy colony of bacteria. Once a minute every bacterium divides into two. The colony was founded by a single cell at noon. At exactly 12:43 (43 minutes later) the Petri dish was half full. At what time will the dish be full?

## #15

**The Ladies' Man.** A man has married 20 women in a small town. All of the women are still alive and none of them are divorced. The man has broken no laws. Who is the man?



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**#16**

**Remove the matches.** Please look at the matchstick formation. Remove 6 matches, leaving 10.

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## #17

**Remote Association.** Each of the ten problems below consists of three “clue” words. For each problem, think of a fourth word that relates to each of the other three “clue” words. Write your response on the line alongside each problem.

EG, Elephant–Lapse–Vivid

*Memory.*

a. Athletes–Web–Rabbit

\_\_\_\_\_

b. Shelf–Read–End

\_\_\_\_\_

c. Sea–Home–Stomach

\_\_\_\_\_

d. Car–Swimming–Cue

\_\_\_\_\_

e. Board–Magic–Death

\_\_\_\_\_

f. Walker–Main–Sweeper

\_\_\_\_\_

g. Cookies–Sixteen–Heart

\_\_\_\_\_

h. Chocolate–Fortune–Tin

\_\_\_\_\_

i. Lounge–Hour–Drink

\_\_\_\_\_

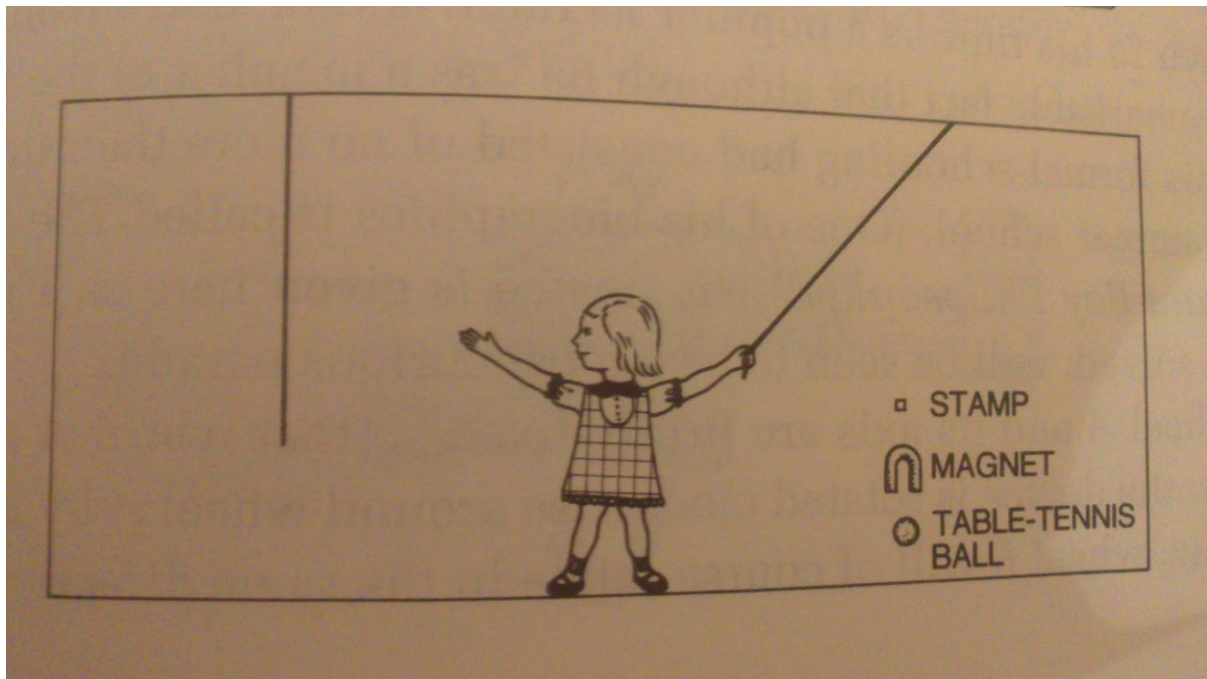
j. Keel–Show–Row

\_\_\_\_\_

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## #18

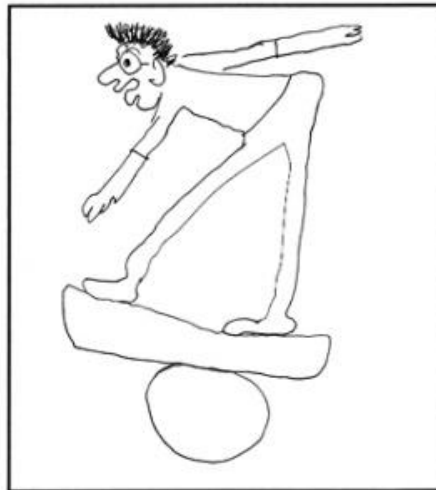
**Functional Fixedness.** You are in a bare room. 2 strings hang from the ceiling, as per the diagram. You need to tie the ends together. When you grasp one end of the string, however, the other dangles many feet beyond your reach. You cannot use anything you are wearing or have on your person (such as your stockings, belt, trousers for the purpose of swinging them to catch the string), but you may use any or all of 3 objects on the floor: a table-tennis ball, a small horseshoe magnet, and a postage stamp. How do you do it?



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## #19

**Incomplete figures test.** This is a drawing challenge. Please look at the two incompleted figures provided. Your task is to complete these images. Uncommon subject matter, implied stories, humor, and original perspective all earn high marks. Additional completed images also gain more marks. Some examples are below.



BALANCING ACT



NEW FIRM

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## #20

**Word Wall.** Here are 16 clues. Your task is to organise them into connected groups of 4. You are then to identify what links them together. There is only one unique answer.

Ugg	Mass	Tomato	Cowboy
Blue	Burger	Nelson	Hamilton
Christchurch	Riding	Stroganoff	Eater
Wellington	Snack	Oil	Dunedin

Group 1.....

*Connection* .....

Group 2.....

*Connection* .....

Group 3.....

*Connection* .....

Group 4.....

*Connection* .....