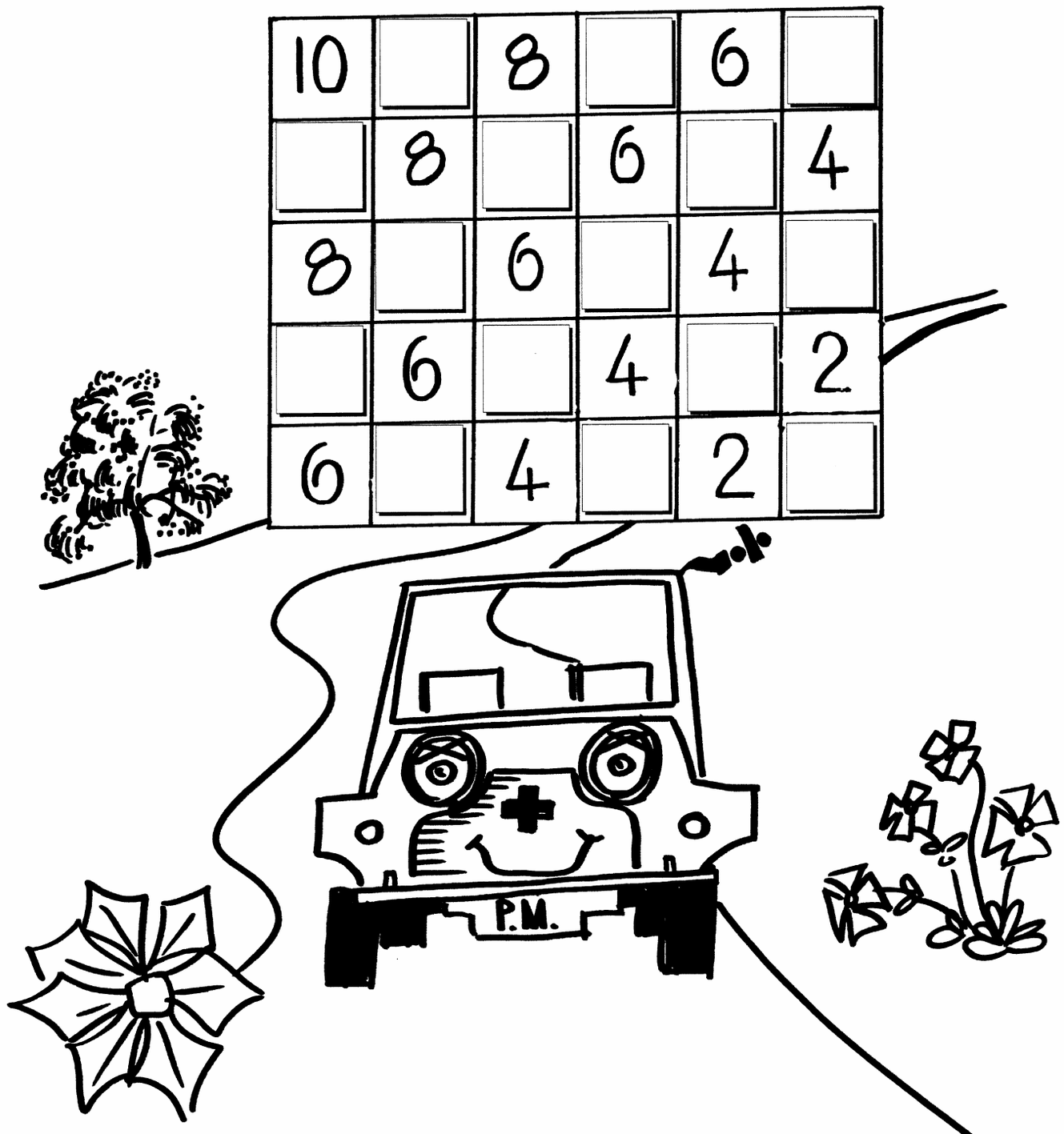
PROFESSOR MORRIS PUZZLES

Look closely now and you will find
The numbers I have hid.
They're special ones and can be found
By any little kid.



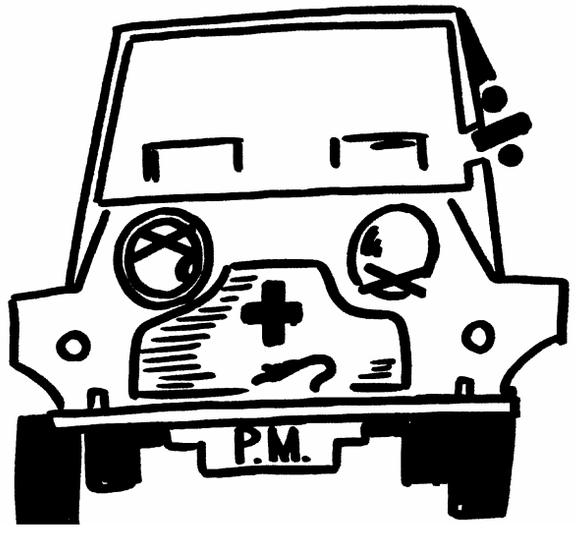
Puzzle 1

© Doug. Williams
Published for free copying
and distribution in perpetuity.

PROFESSOR MORRIS PUZZLES

Many numbers now have gone,
But many I am leavin'.
When you find the missing ones
You'll know that they are _____.

	9		7		5
9		7		5	
	7		5		3
7		5		3	
	5		3		1



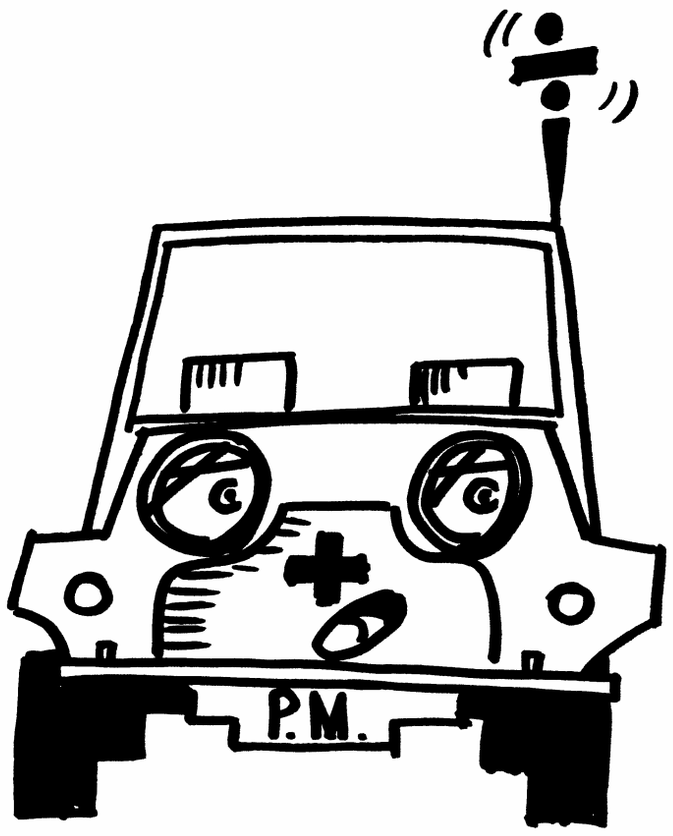
Puzzle 2

© Doug. Williams
Published for free copying
and distribution in perpetuity.

PROFESSOR MORRIS PUZZLES

Right arrow tells you add on two.
I wonder what the left will do?

1 ⇄	3 ⇄	5 ⇄	7 ⇄	9
4	6	8	10	12
7	9	11	13	15
10	12	14	16	18



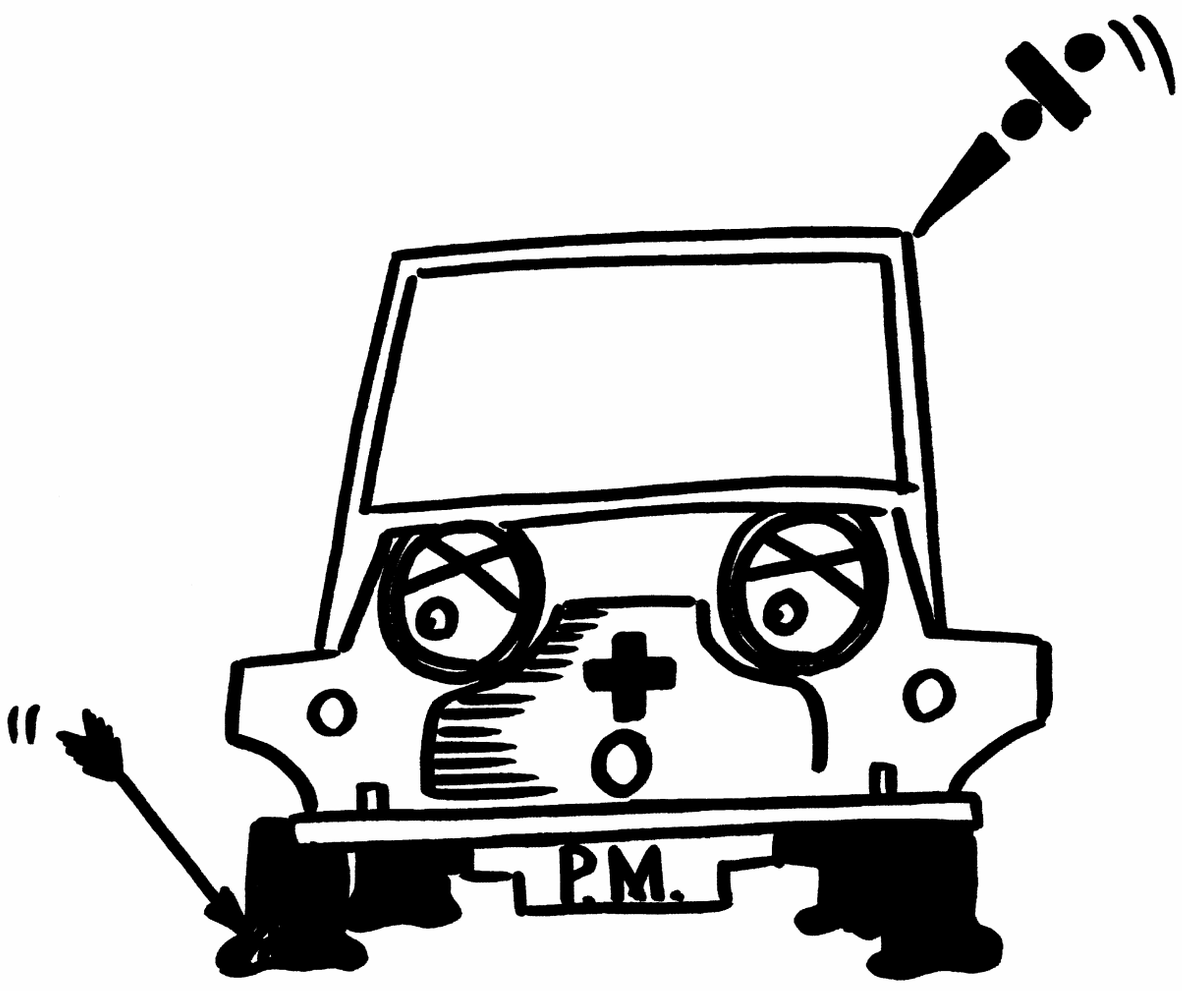
Puzzle 3

© Doug. Williams
Published for free copying
and distribution in perpetuity.

PROFESSOR MORRIS PUZZLES

Up arrow tells you take off three.
I wonder what the down could be?

1 ↑	3	5	7	9
↓ 4	6	8	10	12
7	9	11	13	15
10	12	14	16	18

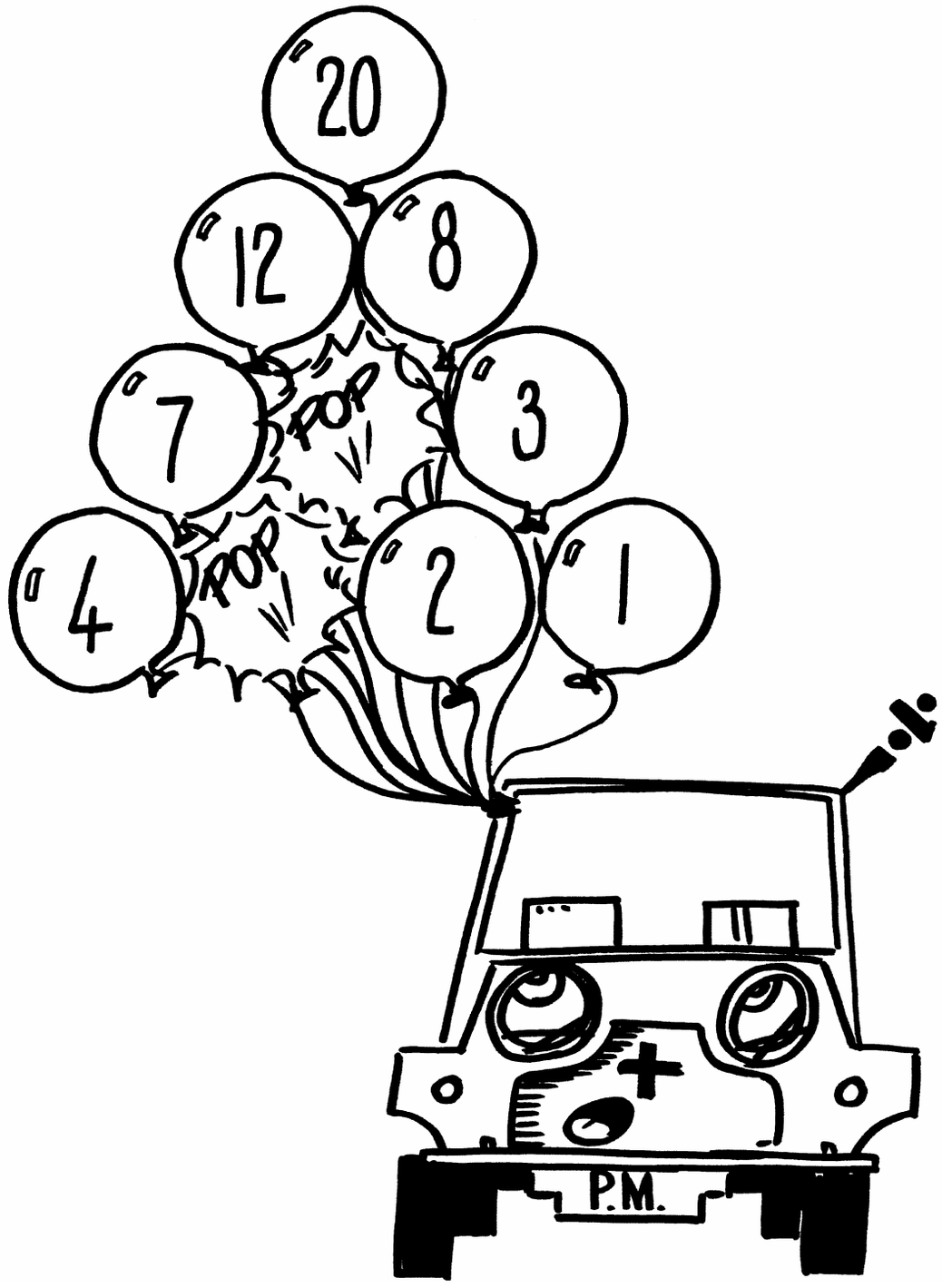


Puzzle 4

© Doug. Williams
Published for free copying
and distribution in perpetuity.

PROFESSOR MORRIS PUZZLES

I have my little secrets;
Here's another one to do.
Two numbers have gone missing
To make it hard for you.

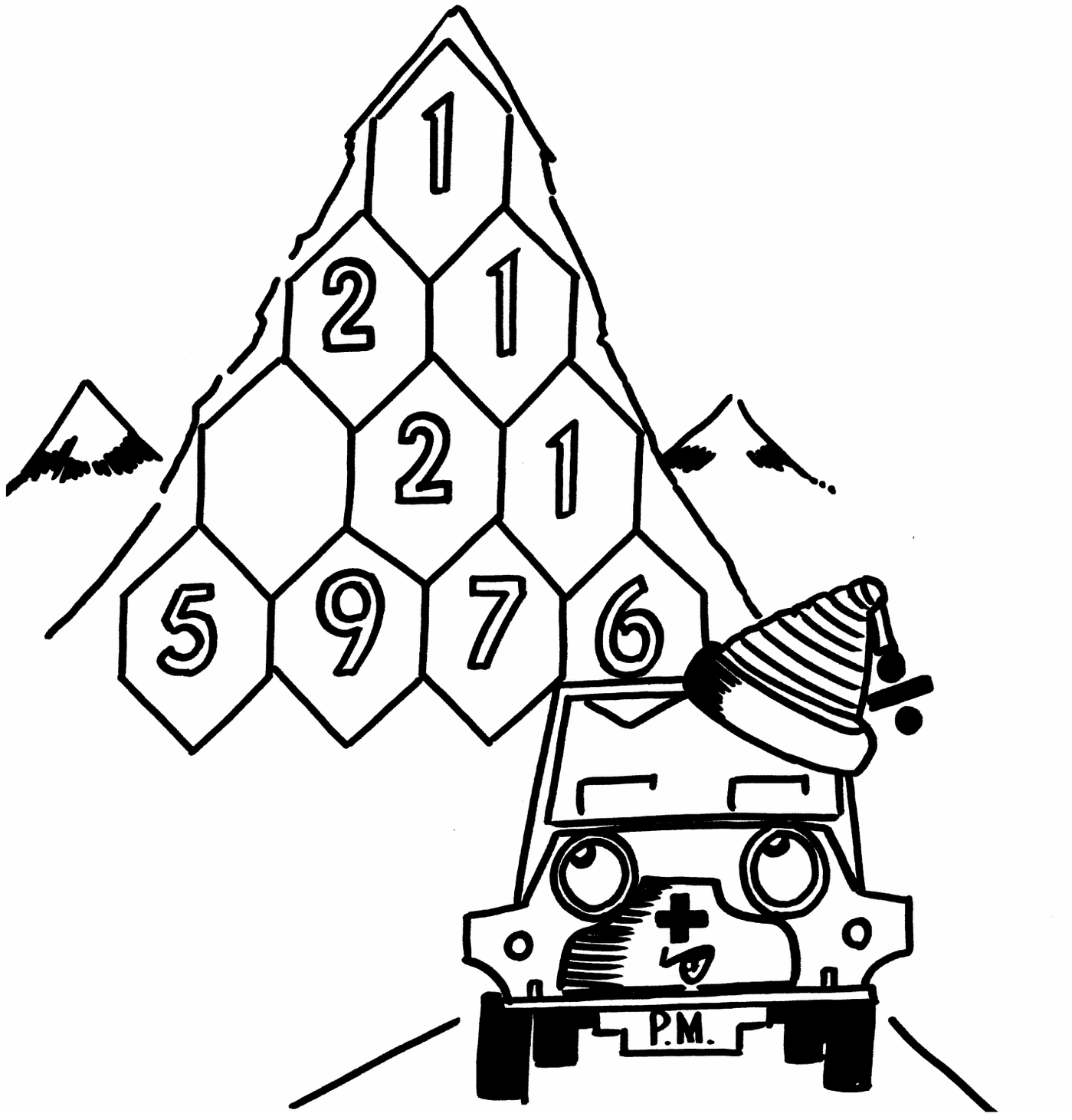


Puzzle 5

© Doug. Williams
Published for free copying
and distribution in perpetuity.

PROFESSOR MORRIS PUZZLES

There's a difference in my mountain
And to fill the empty space,
You have to try to understand
The change that's taken place.

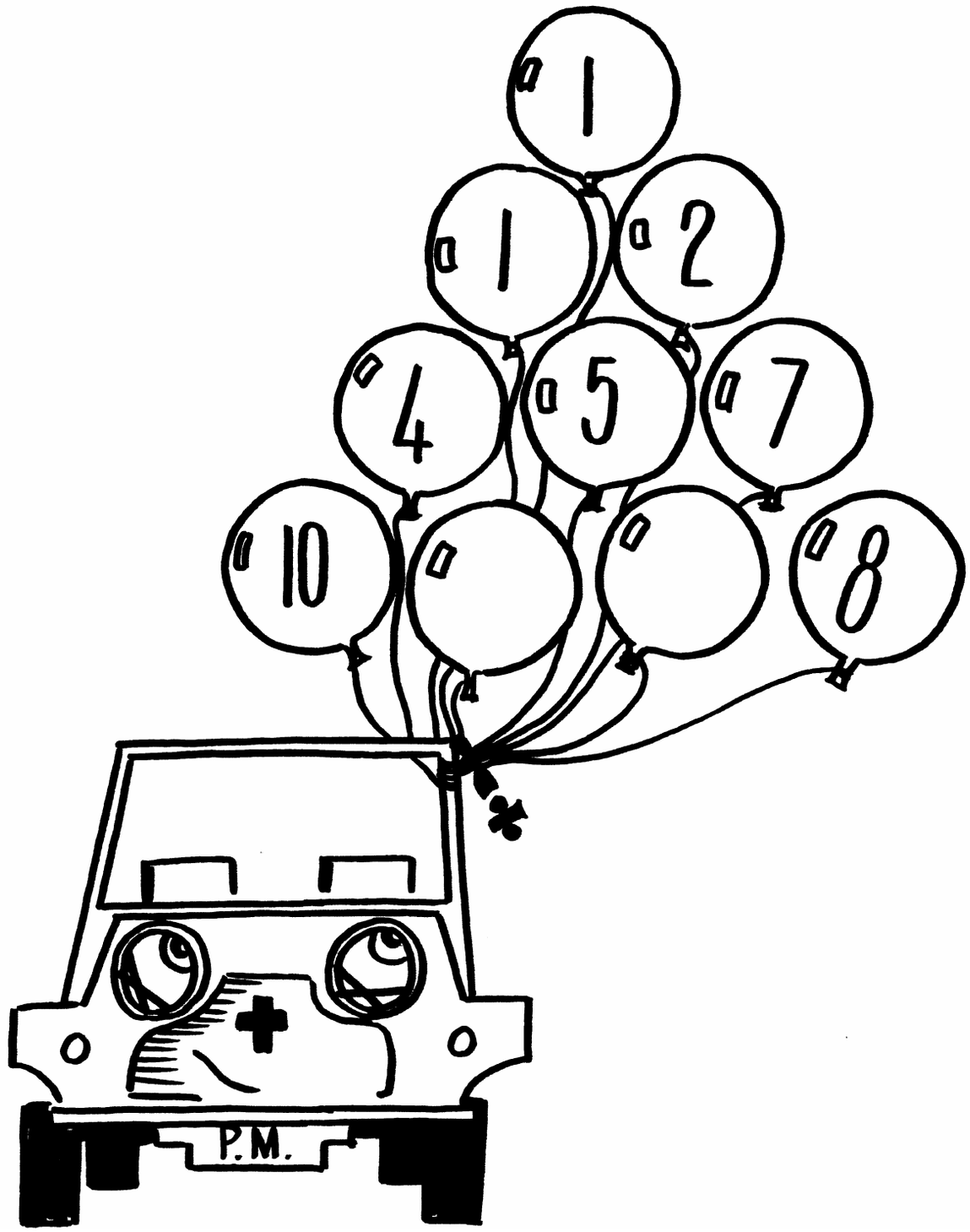


Puzzle 6

© Doug. Williams
Published for free copying
and distribution in perpetuity.

PROFESSOR MORRIS PUZZLES

Now you have seen the difference,
Try using it below
To find the missing numbers.
Come on now have a go.



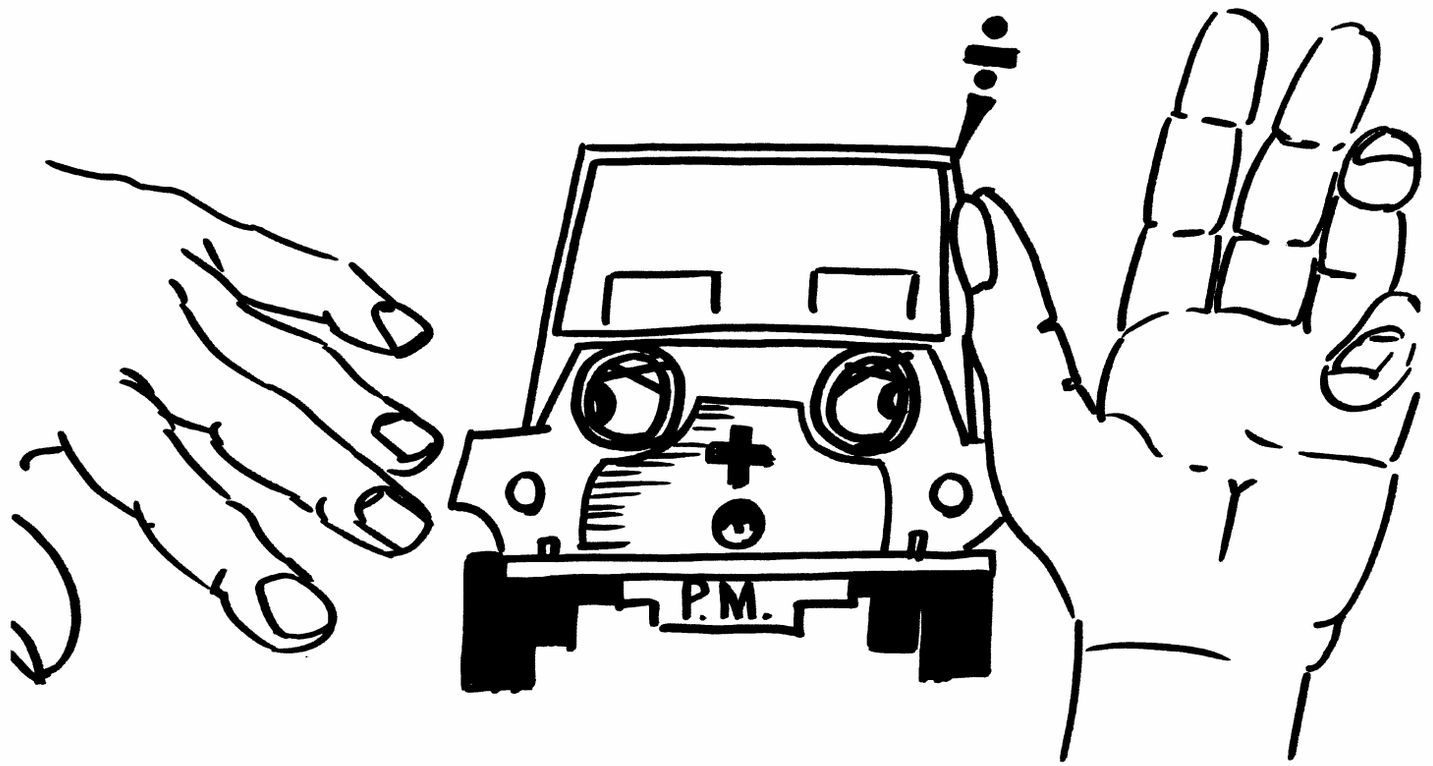
Puzzle 7

© Doug. Williams
Published for free copying
and distribution in perpetuity.

PROFESSOR MORRIS PUZZLES

If I had four hands my friend,
Five fingers stuck on each,
And counted all the fingers there
What number would I reach?

(That gives you 'thumb'-thing to think about.)

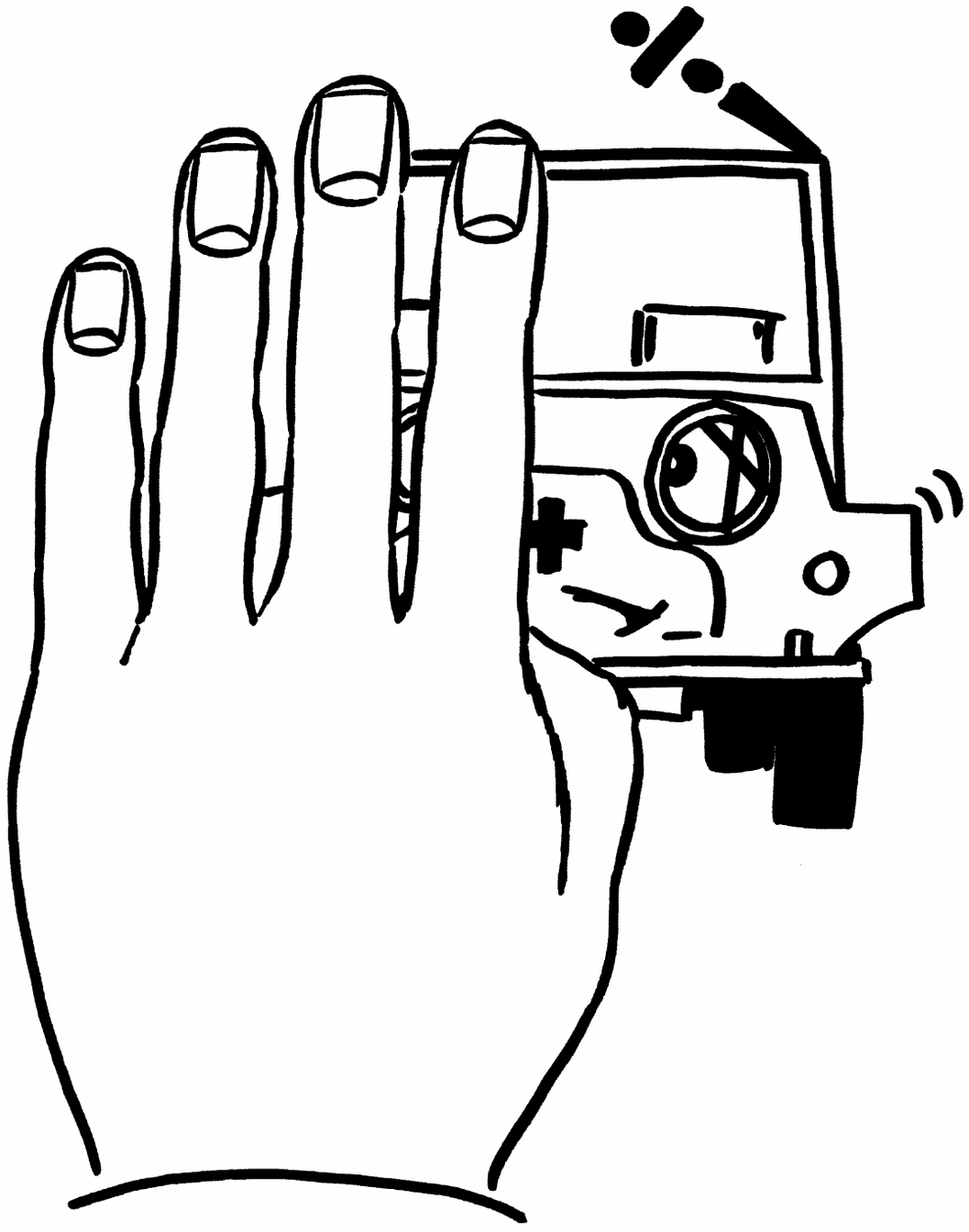


Puzzle 8

© Doug. Williams
Published for free copying
and distribution in perpetuity.

PROFESSOR MORRIS PUZZLES

If I had five hands my friend
Four fingers stuck on each,
And counted all the fingers there
What number would I reach?



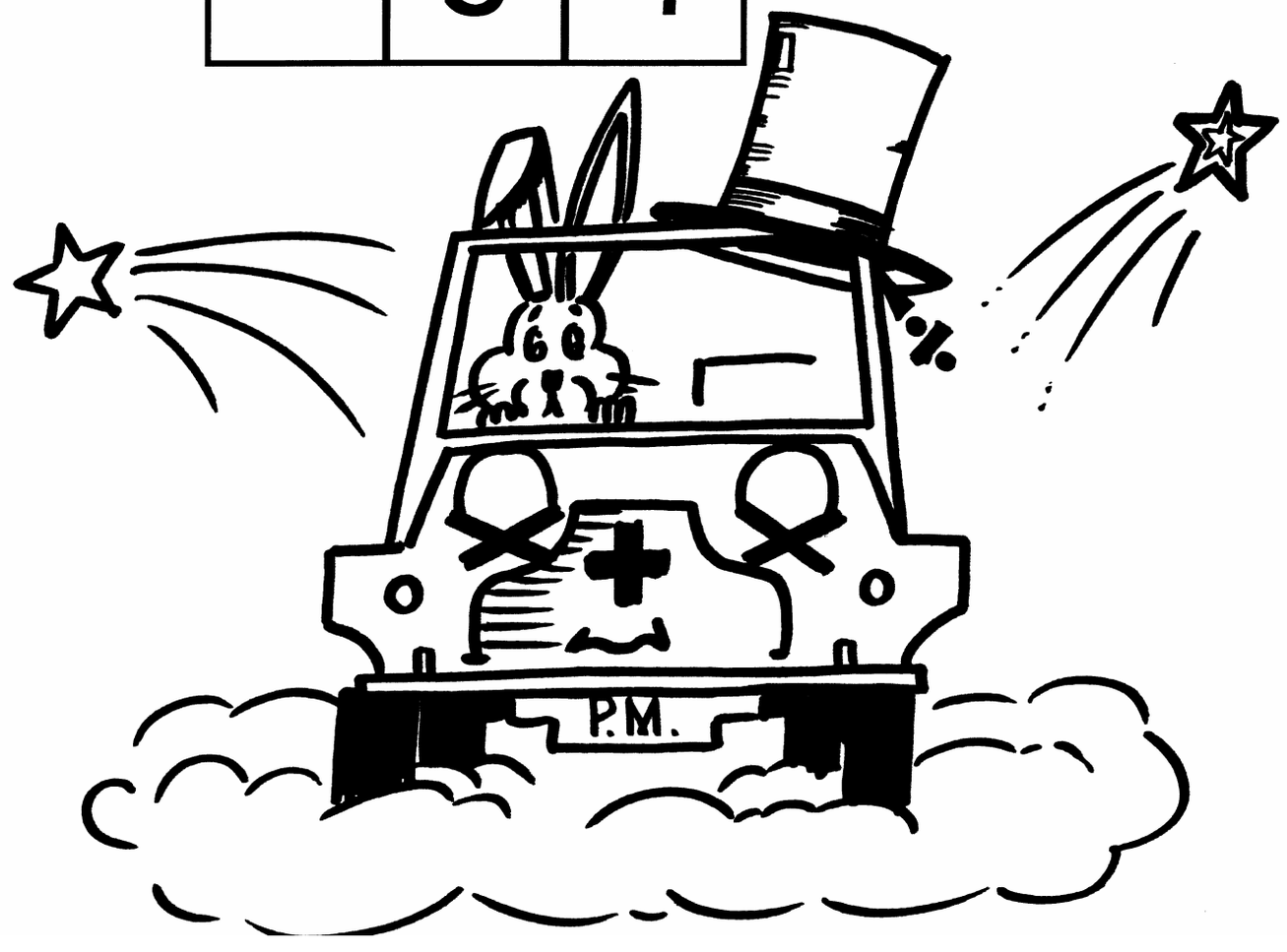
Puzzle 9

© Doug. Williams
Published for free copying
and distribution in perpetuity.

PROFESSOR MORRIS PUZZLES

I'm a Magic Square they say
And if you look the sloping way,
You'll know how much each line will be,
Then you can find the missing three.

6		2
1	5	
	3	4

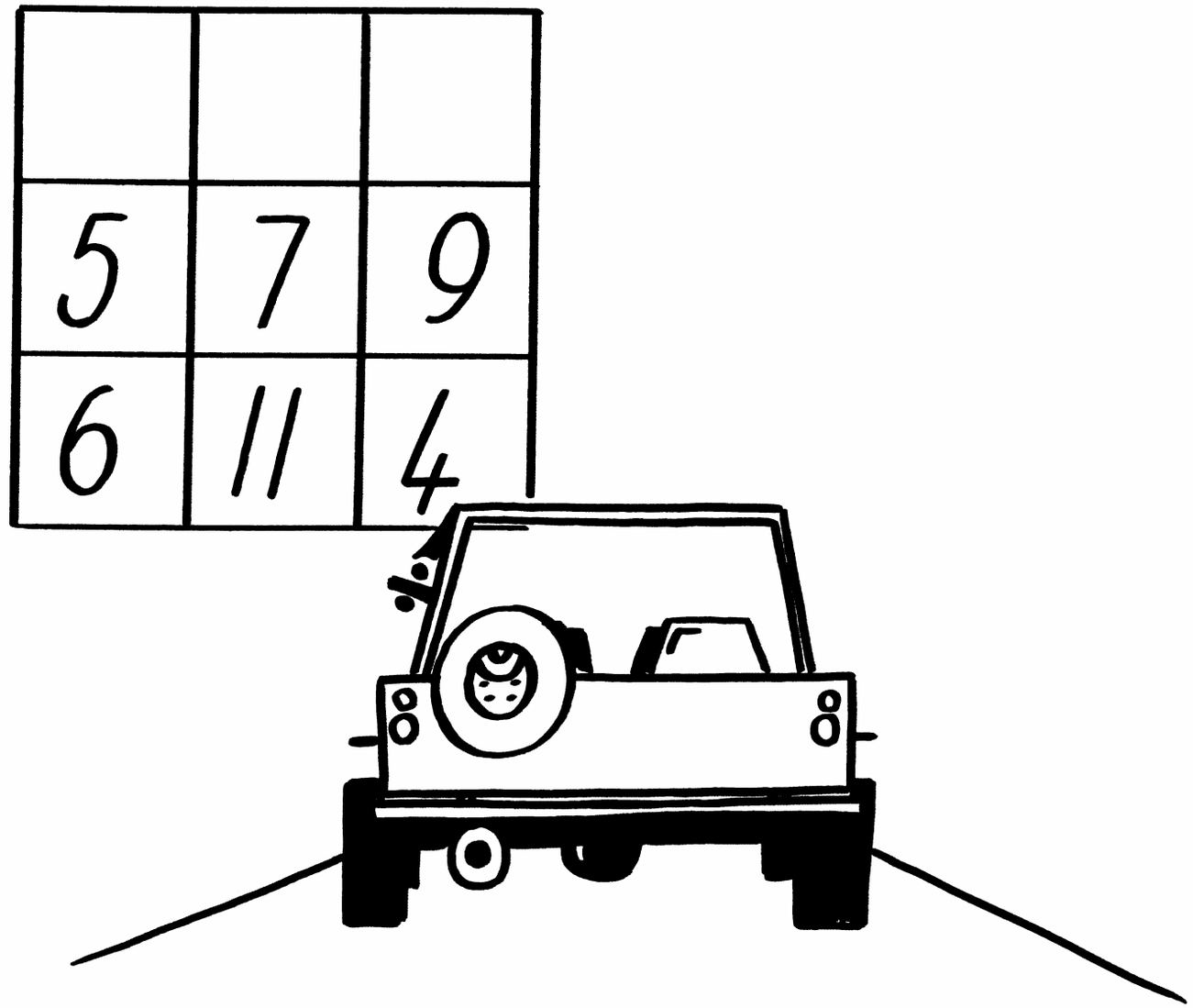


Puzzle 10

© Doug. Williams
Published for free copying
and distribution in perpetuity.

PROFESSOR MORRIS PUZZLES

Another Magic Square to do
If you know the counting clue.

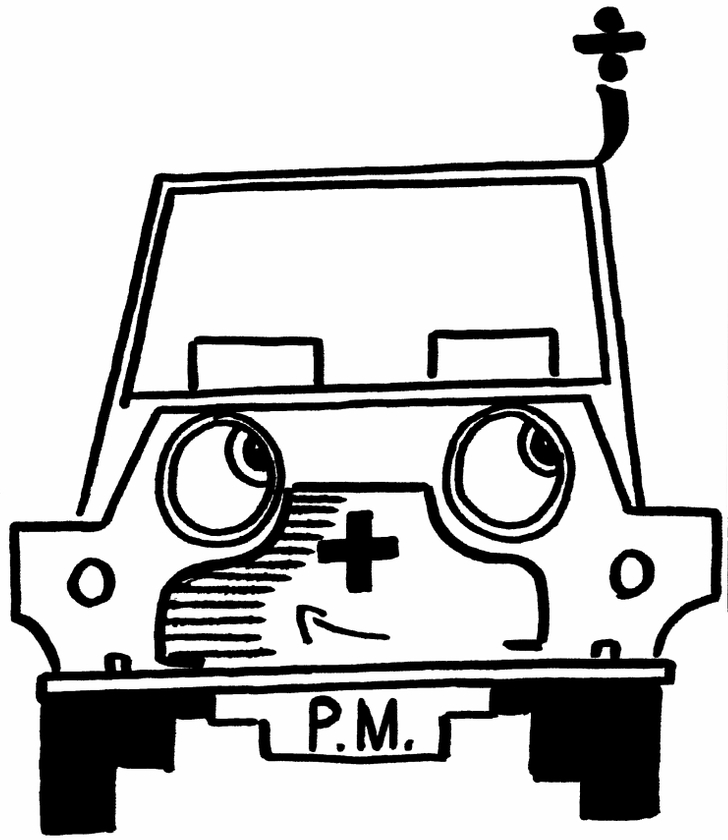


Puzzle 11

© Doug. Williams
Published for free copying
and distribution in perpetuity.

PROFESSOR MORRIS PUZZLES

Can you finish the Magic Square
So it sums to 42 everywhere?
Three to eighteen are the digits to use.
Get yourself started -
there are no more clues.



			5
	11	18	4
		7	
		3	

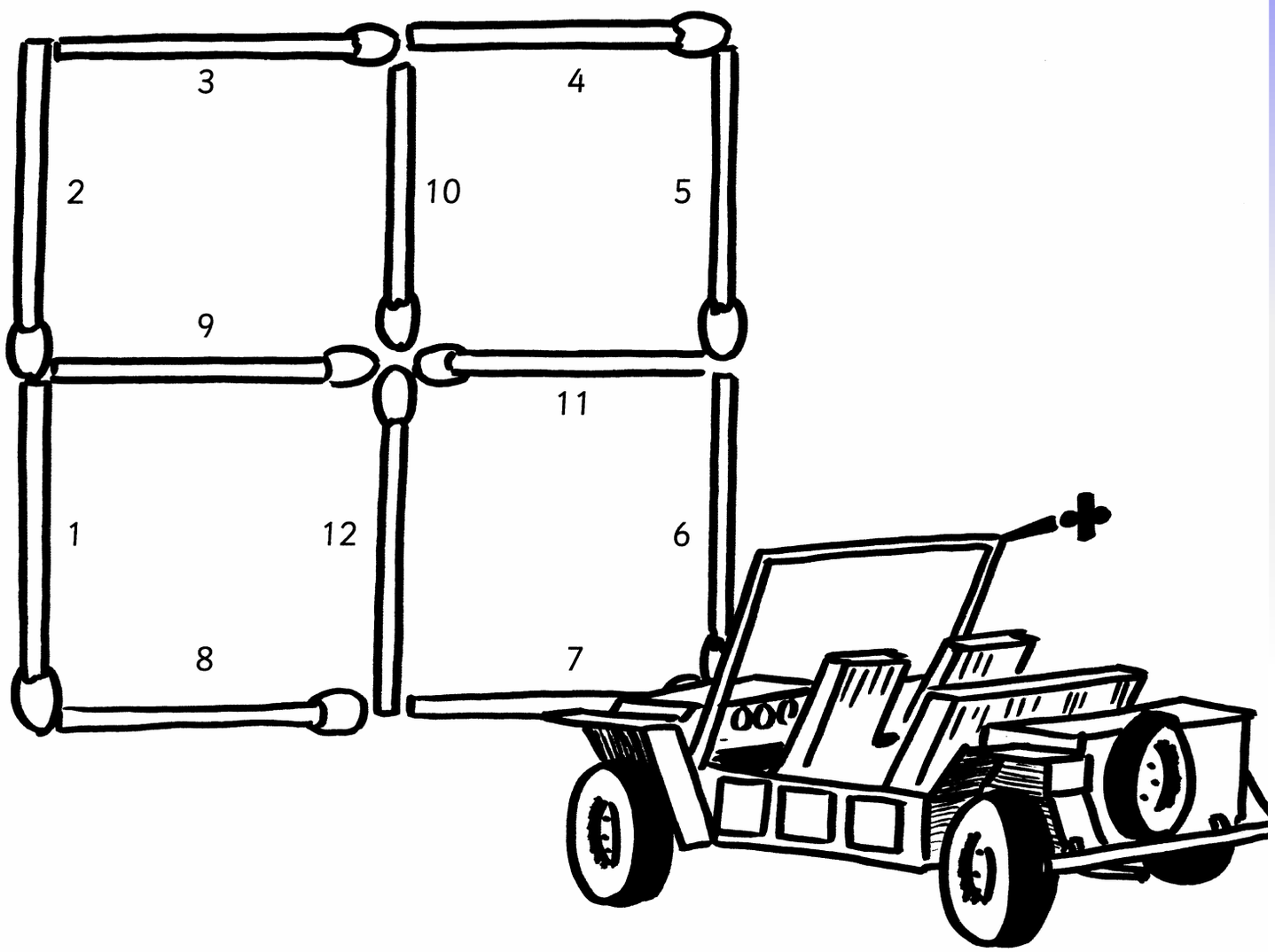
Puzzle 12

© Doug. Williams
Published for free copying
and distribution in perpetuity.

PROFESSOR MORRIS PUZZLES

Now here's a different puzzle
For bright sparks we might know.
You must leave me just two squares
By making two sticks go.

Which ones?



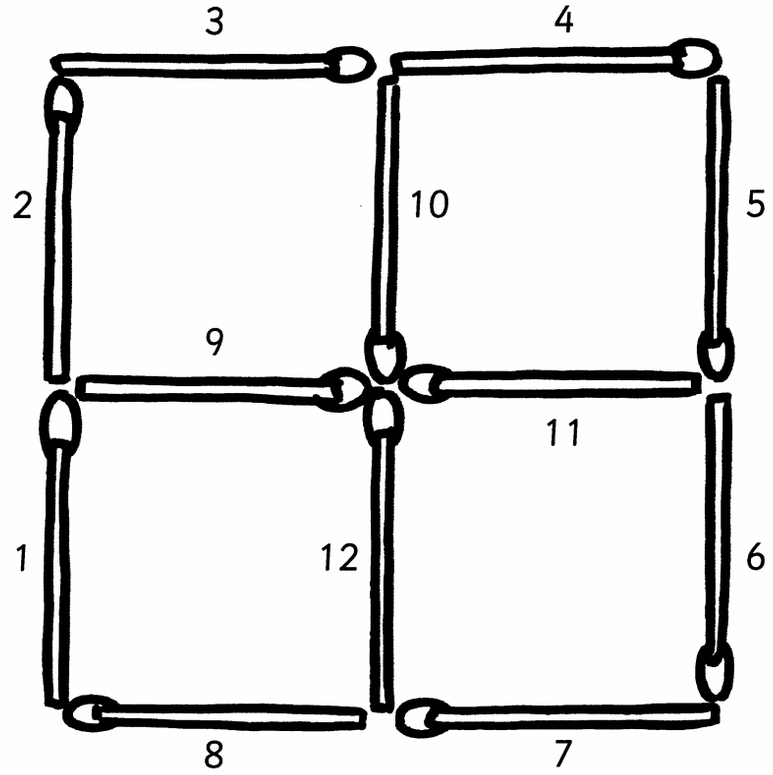
Puzzle 13

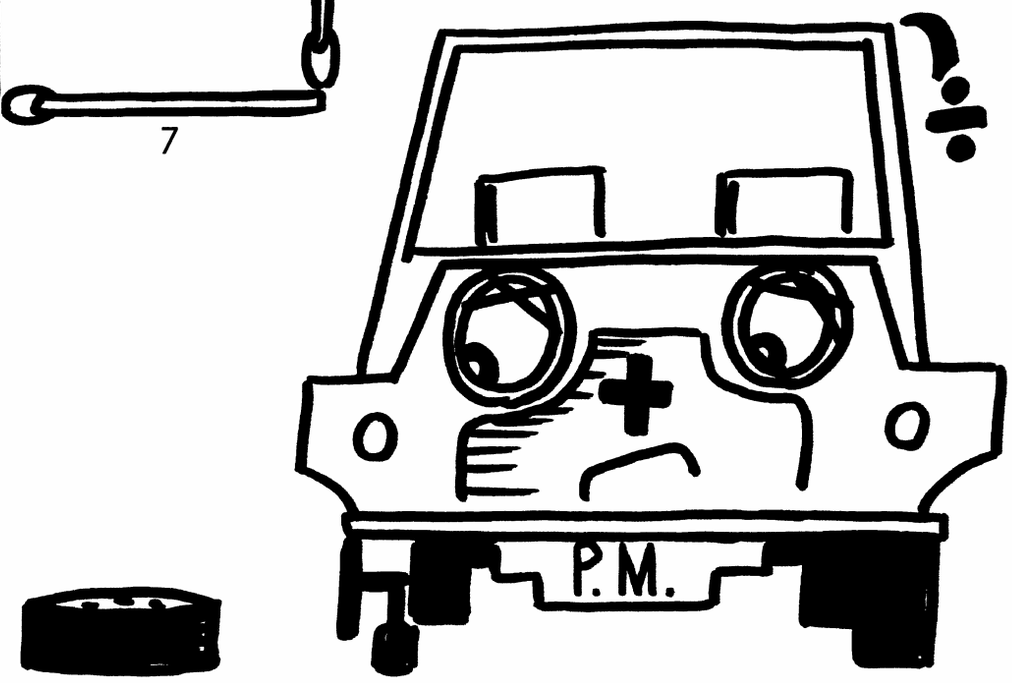
© Doug. Williams
Published for free copying
and distribution in perpetuity.

PROFESSOR MORRIS PUZZLES

Shift two matches to somewhere else
To make seven squares all by yourself.

Which matches to where?



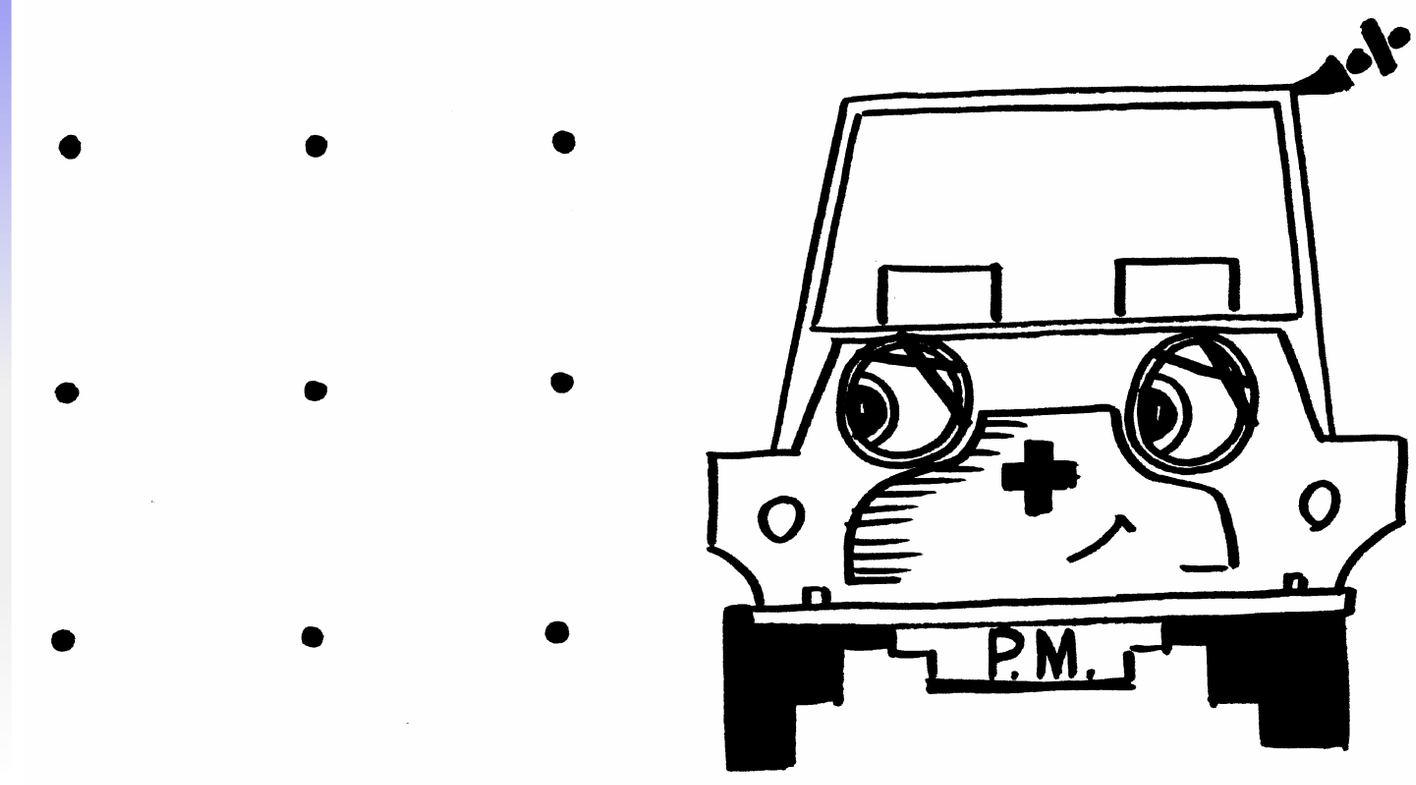


Puzzle 14

© Doug. Williams
Published for free copying
and distribution in perpetuity.

PROFESSOR MORRIS PUZZLES

Lifting your pencil means you're
a cheat,
But four straight lines looking
really neat
Must be drawn through all the dots.
I hope you don't tie your fingers
in knots!



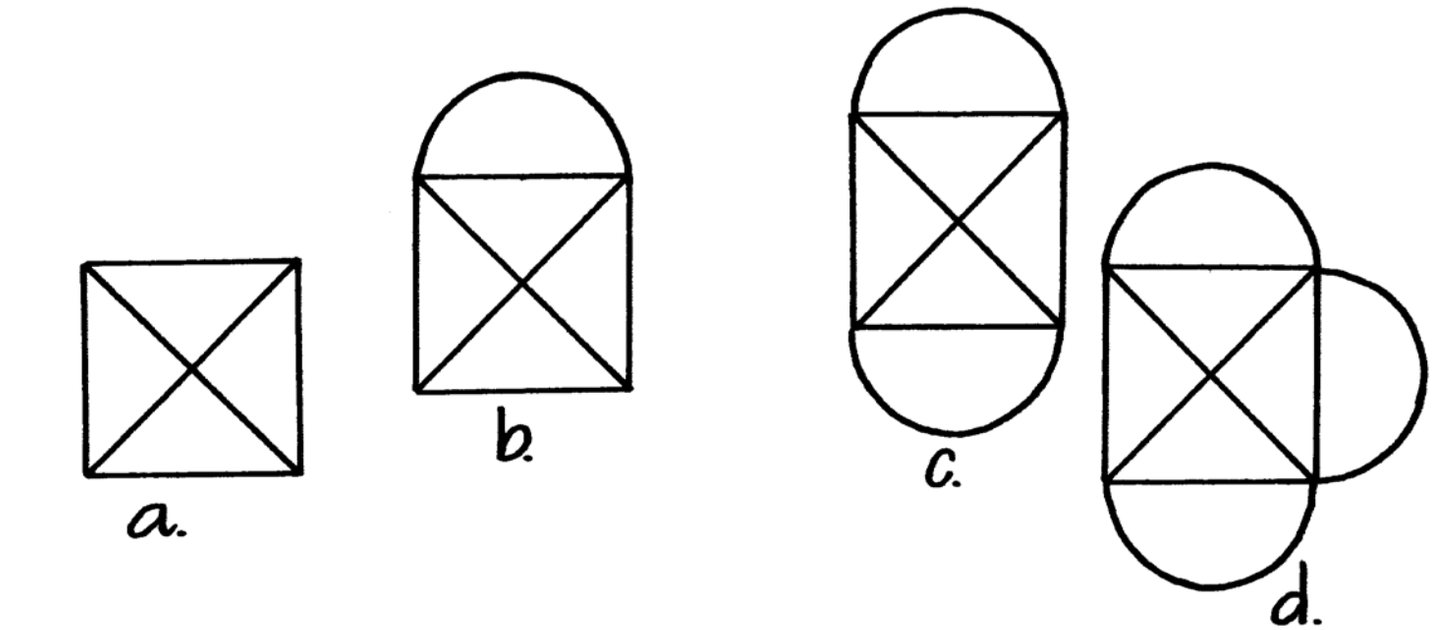
Puzzle 15

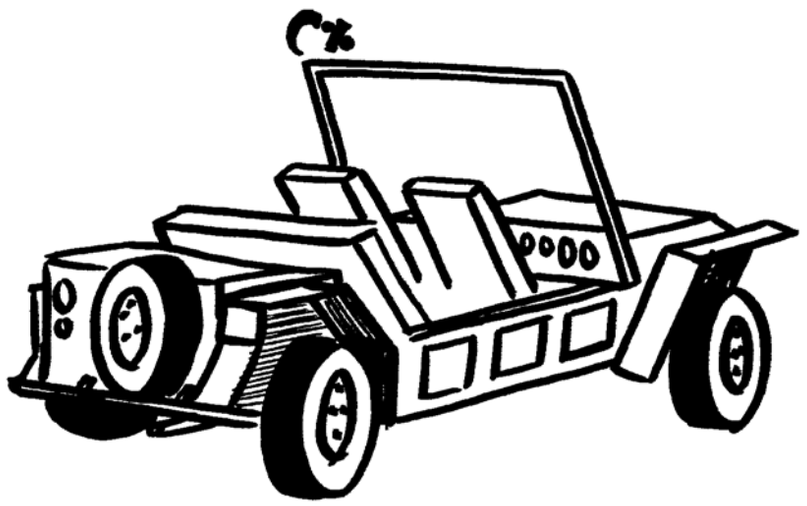
© Doug. Williams
Published for free copying
and distribution in perpetuity.

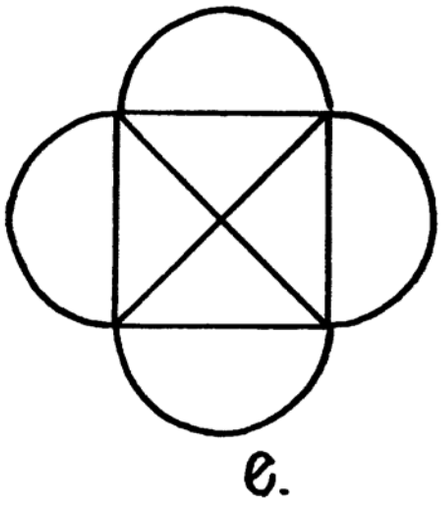
PROFESSOR MORRIS PUZZLES

Some paths here you can traverse
and arrive at where you start,
Without going over the same route
twice, not even a little part.

Which ones?





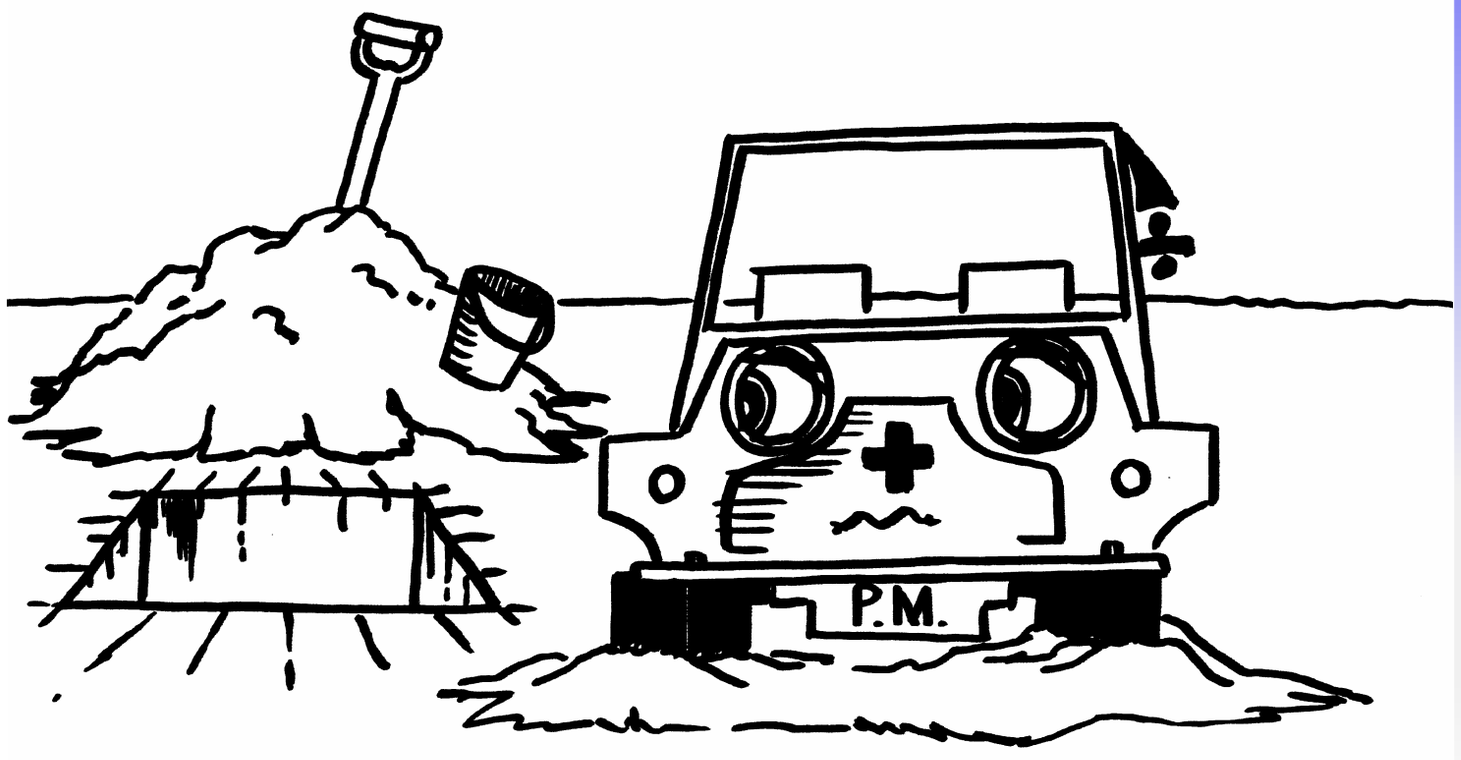


Puzzle 16

© Doug. Williams
Published for free copying
and distribution in perpetuity.

PROFESSOR MORRIS PUZZLES

I dig a hole one metre wide,
One metre long and deep.
How much earth is in the hole
Is all that you must seek?



Puzzle 17

© Doug. Williams
Published for free copying
and distribution in perpetuity.

PROFESSOR MORRIS PUZZLES

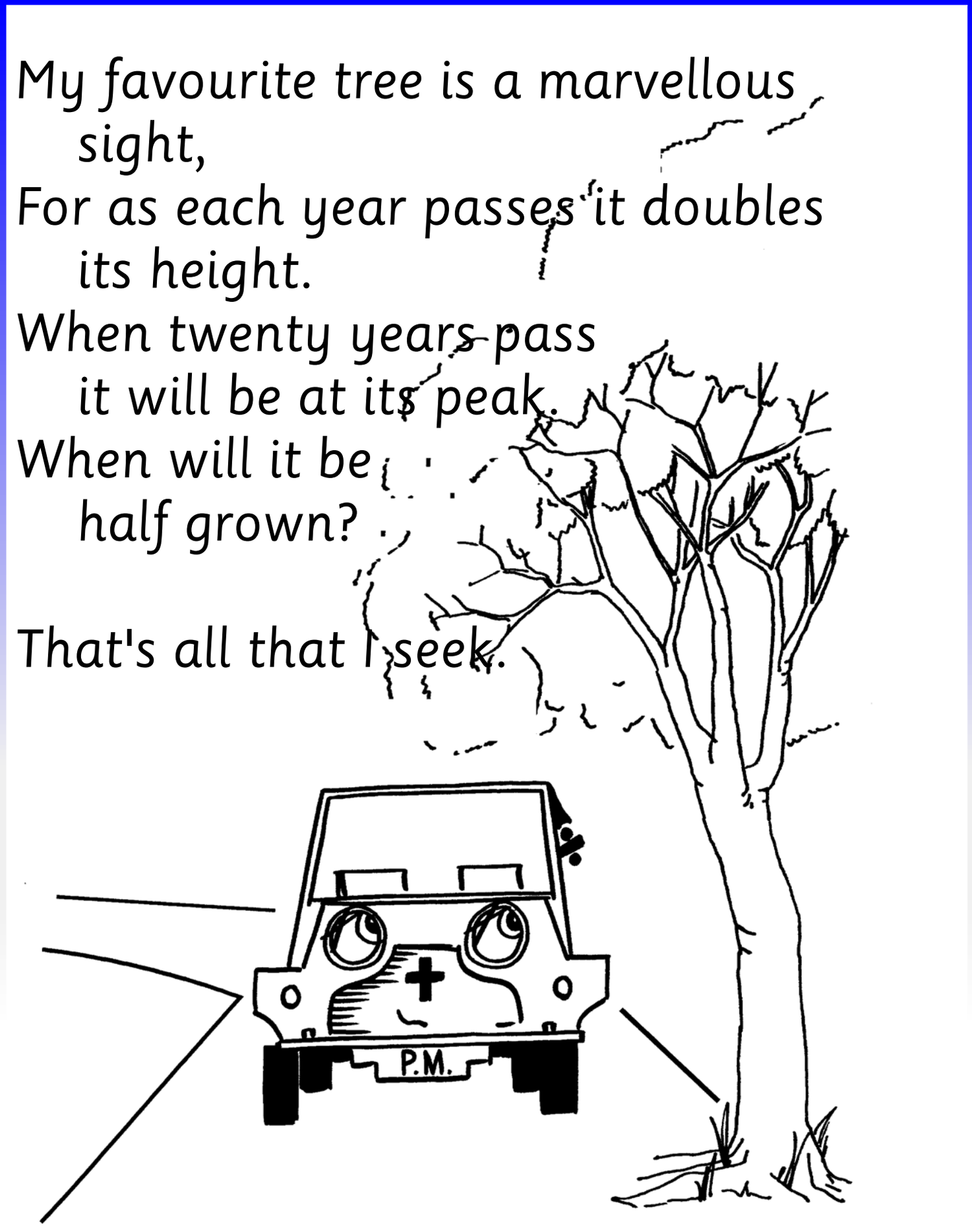
"You may only touch just one..."
"Or move it?"
"Yes, that's fine.
...to make the glasses alternate
Full / empty down the line."

Puzzle 18
© Doug. Williams
Published for free copying
and distribution in perpetuity.

PROFESSOR MORRIS PUZZLES

My favourite tree is a marvellous sight,
For as each year passes it doubles its height.
When twenty years pass it will be at its peak.
When will it be half grown?

That's all that I seek.

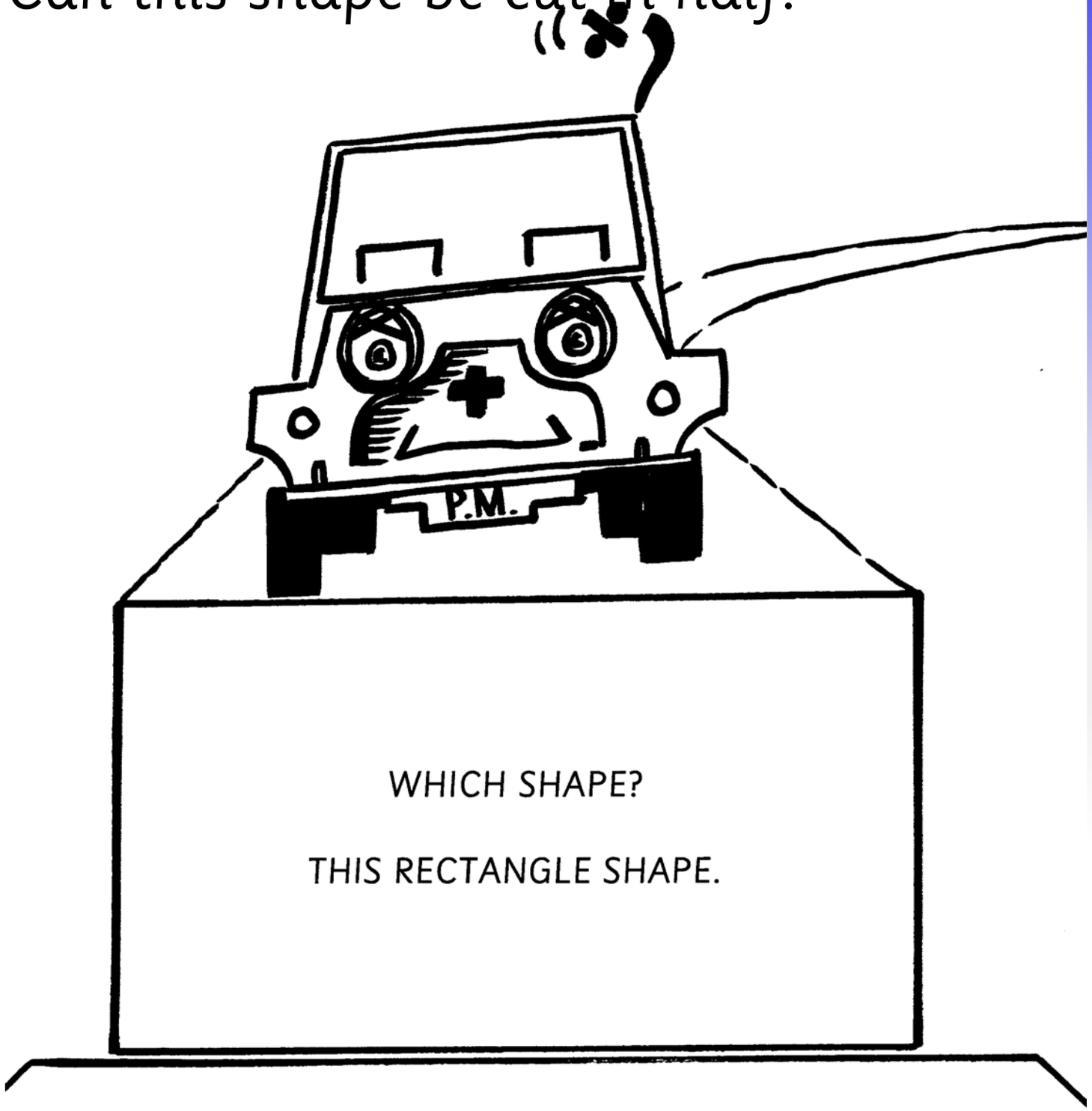


Puzzle 19

© Doug. Williams
Published for free copying
and distribution in perpetuity.

PROFESSOR MORRIS PUZZLES

Now here's a little puzzle
To sort the grain out from the chaff.
How many different ways
Can this shape be cut in half?

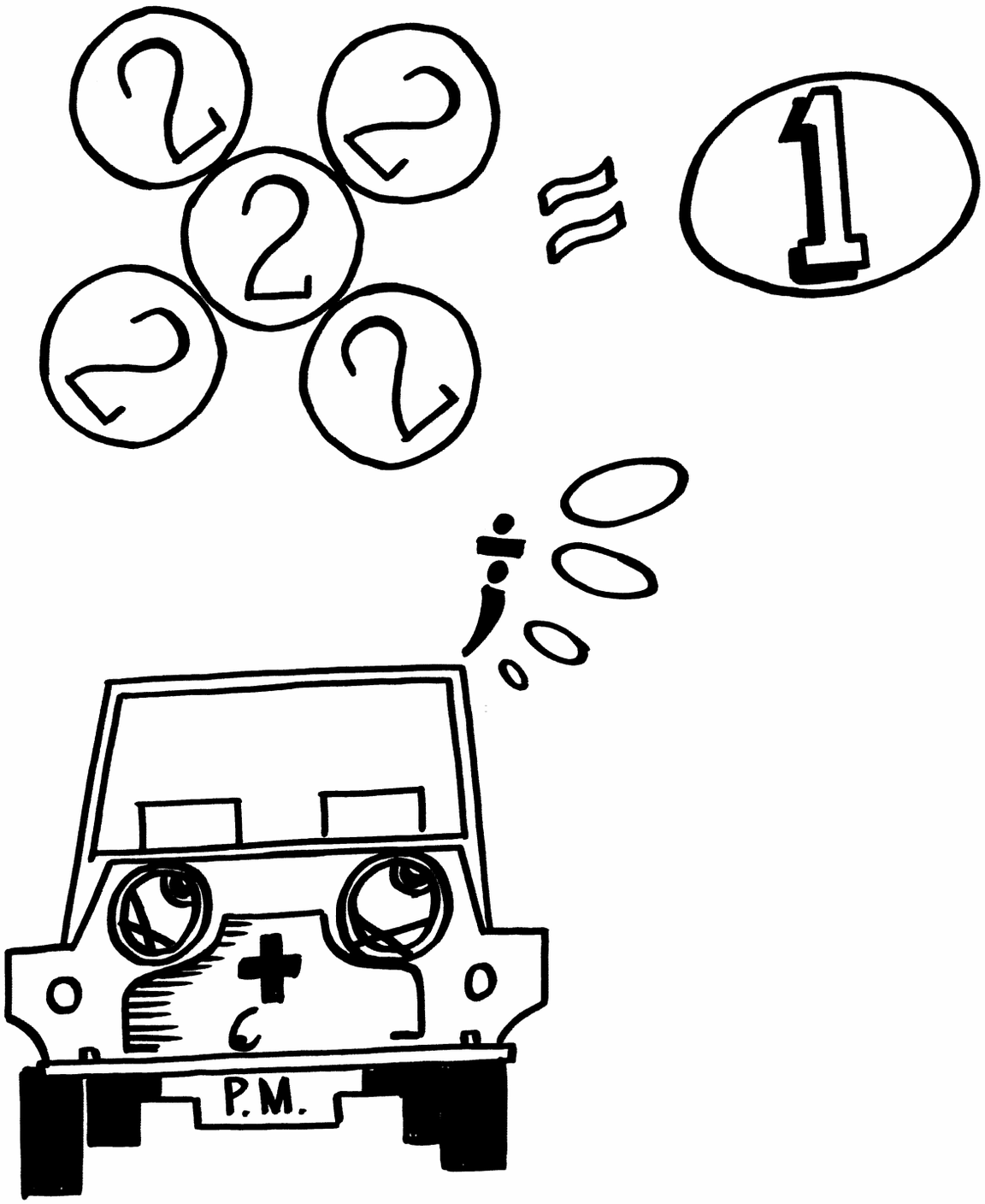


Puzzle 20

© Doug. Williams
Published for free copying
and distribution in perpetuity.

PROFESSOR MORRIS PUZZLES

This time what you are asked two do,
I hope is not two much for you.
Just take five twos and have some fun
Combining them two equal one.



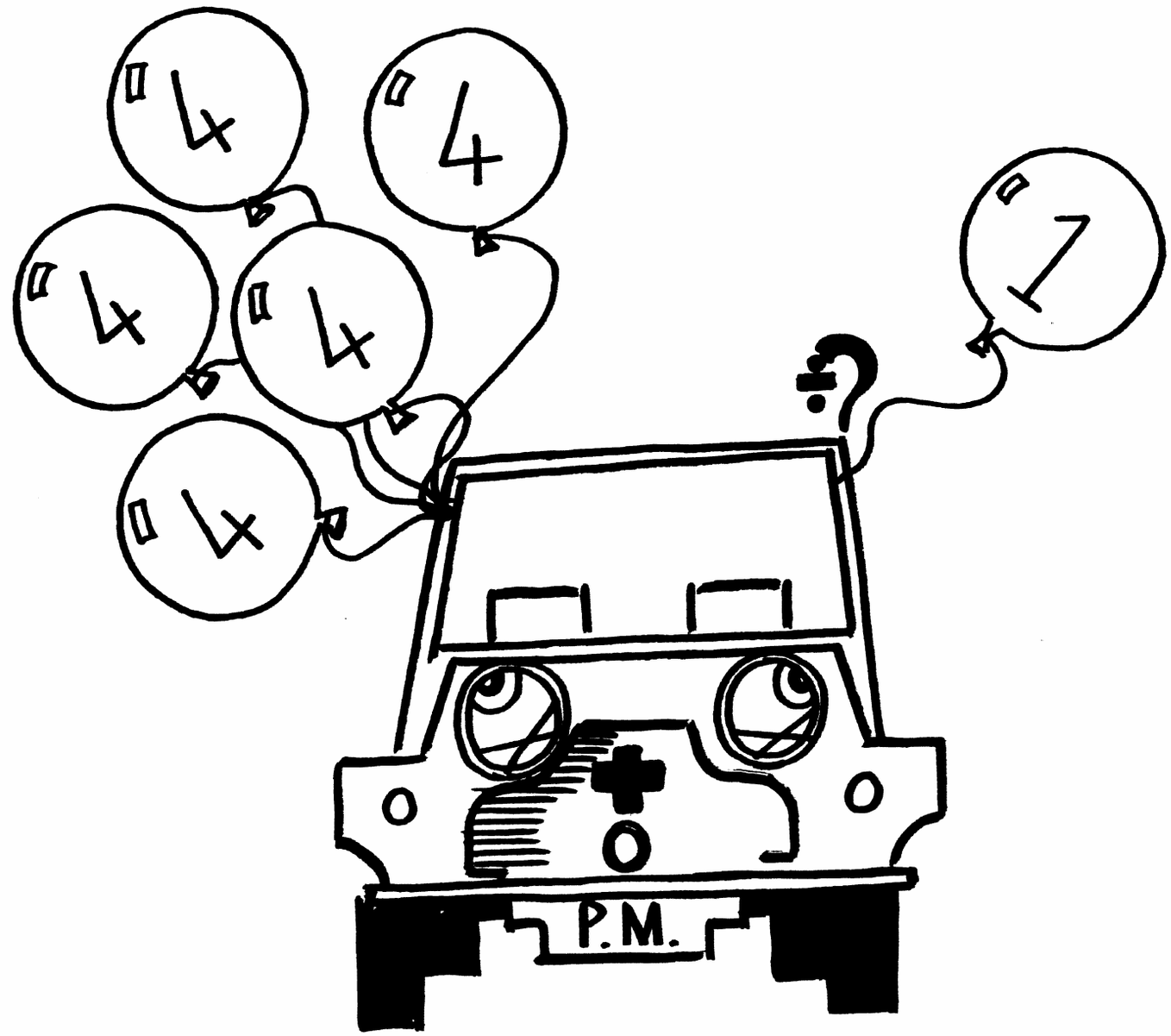
Puzzle 21

© Doug. Williams
Published for free copying
and distribution in perpetuity.

PROFESSOR MORRIS PUZZLES

Make no mistake! It can be done.
Yes just five fours can equal one.

How?



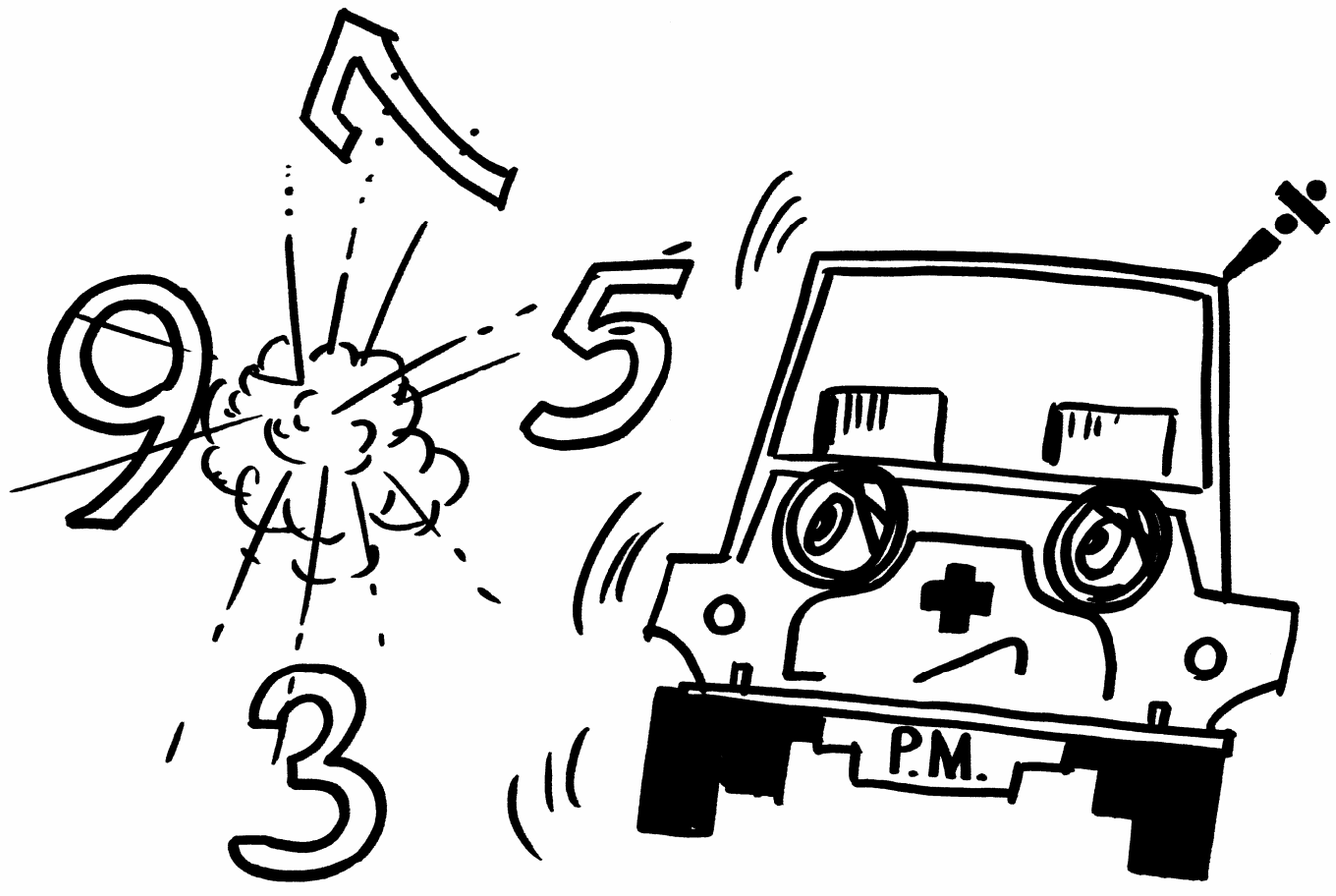
Puzzle 22

© Doug. Williams
Published for free copying
and distribution in perpetuity.

PROFESSOR MORRIS PUZZLES

Four odd numbers not the same
Can add to twenty, that's the aim.

Which ones?

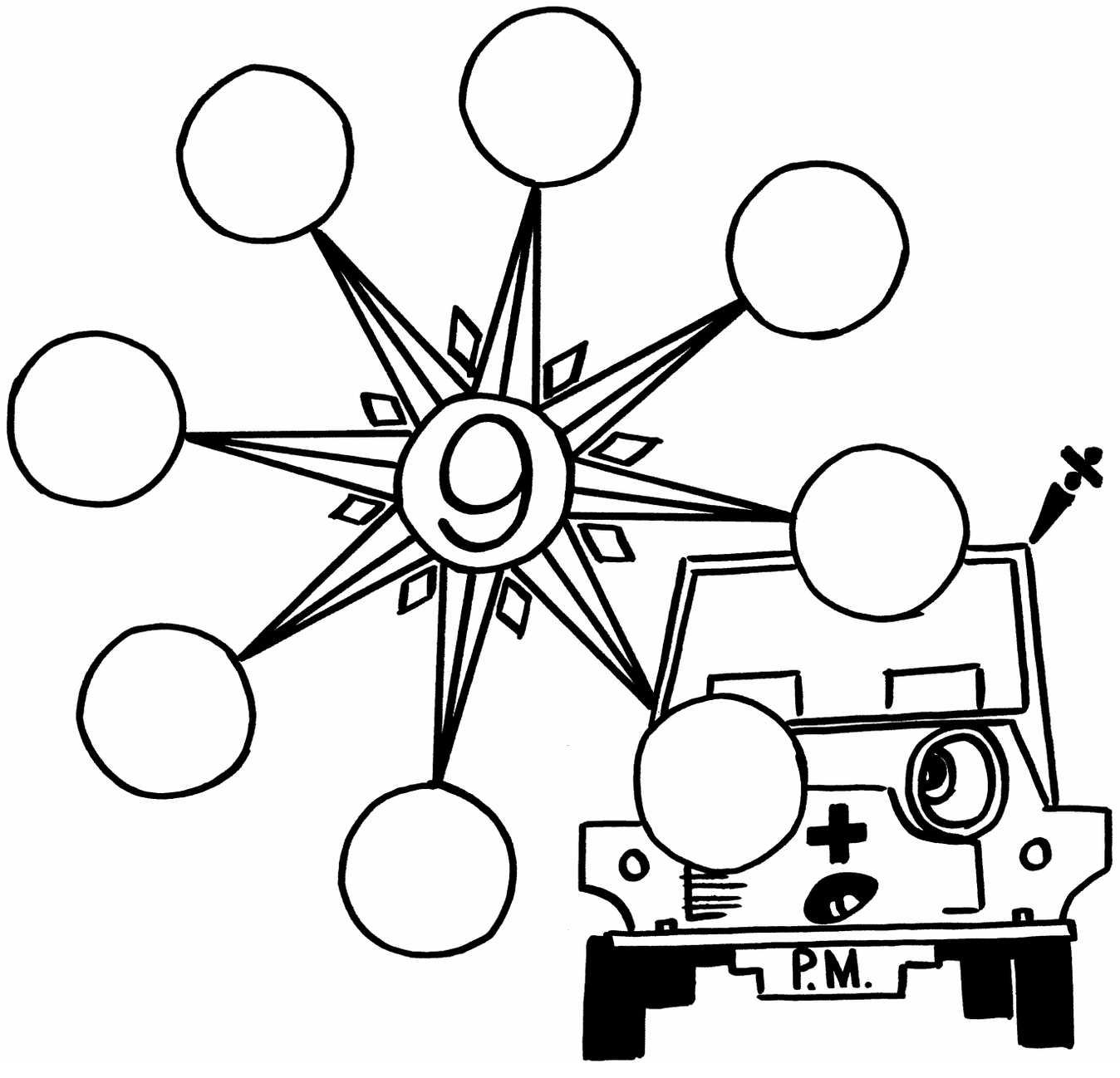


Puzzle 23

© Doug. Williams
Published for free copying
and distribution in perpetuity.

PROFESSOR MORRIS PUZZLES

Thirteen up to twenty are
The numbers which will do,
To fill the circles of my star
With lines worth forty-two.



Puzzle 24

© Doug. Williams
Published for free copying
and distribution in perpetuity.

PROFESSOR MORRIS PUZZLES

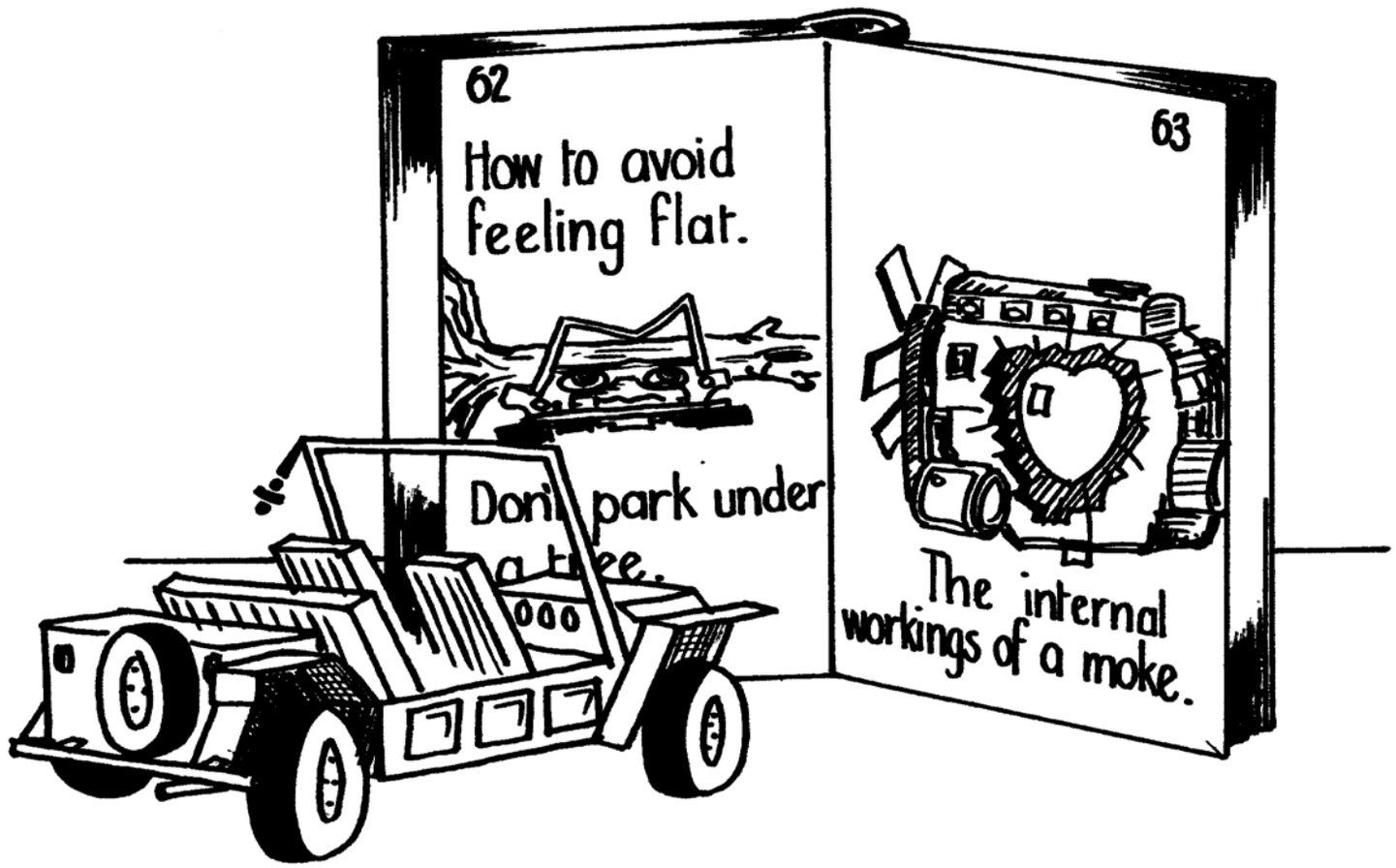
Use the digits nought to nine
But only use each one one time,
To make the largest number known
Which can be made from these alone.

Now here's another number test
For those of you who are the best.
Use again the nought to nine
But make the smallest one this time.

Puzzle 25
© Doug. Williams
Published for free copying
and distribution in perpetuity.

PROFESSOR MORRIS PUZZLES

Two hundred and one digits
Are what have been used,
To number the pages of this book
    I peruse
So can you discover and whisper to me,
Just how many pages before me I see?

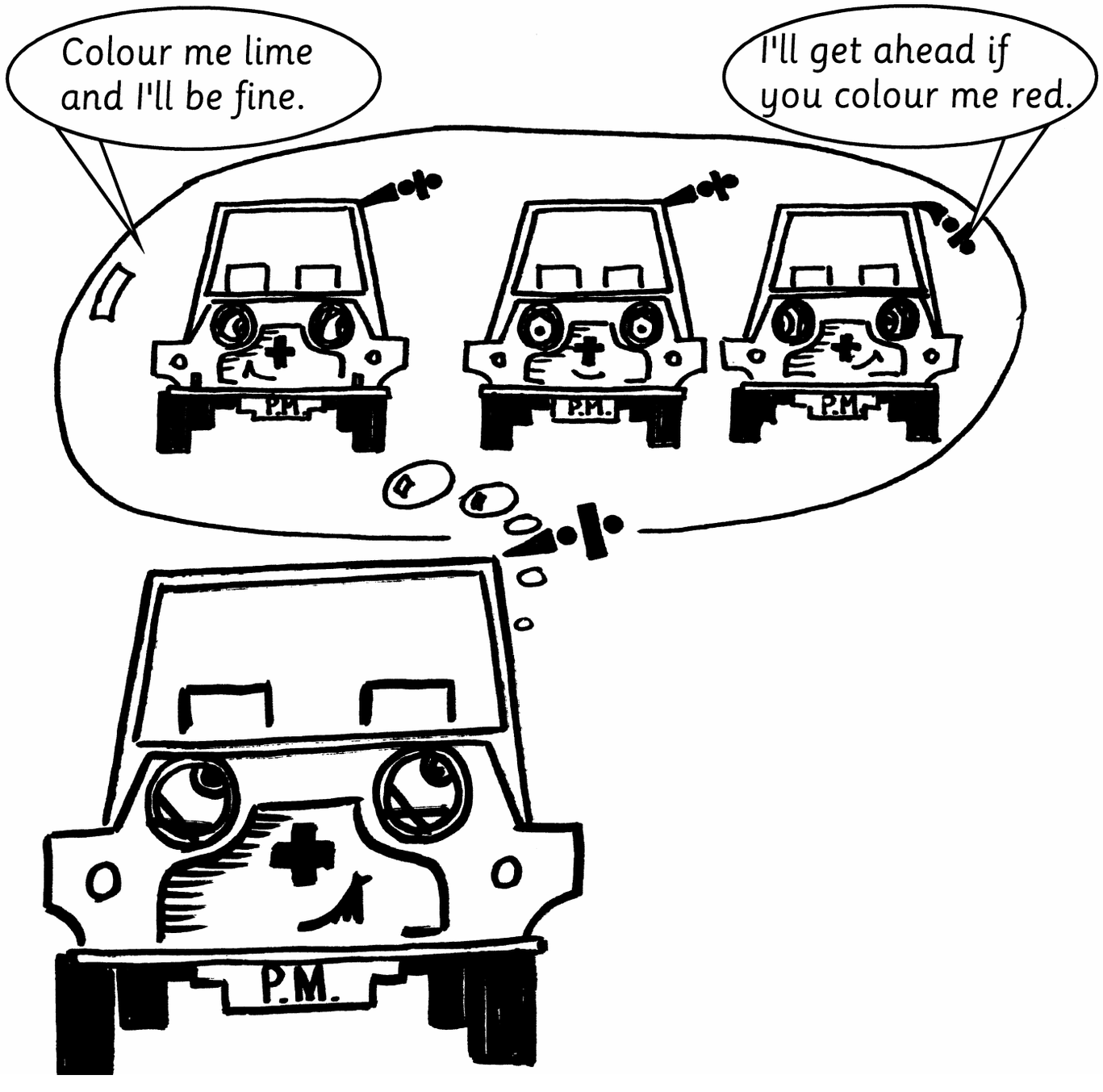


Puzzle 26

© Doug. Williams
Published for free copying
and distribution in perpetuity.

PROFESSOR MORRIS PUZZLES

My friends and I parked in a line.
One was red and one was lime.
I am white, now can you see
How many ways we parked as three?

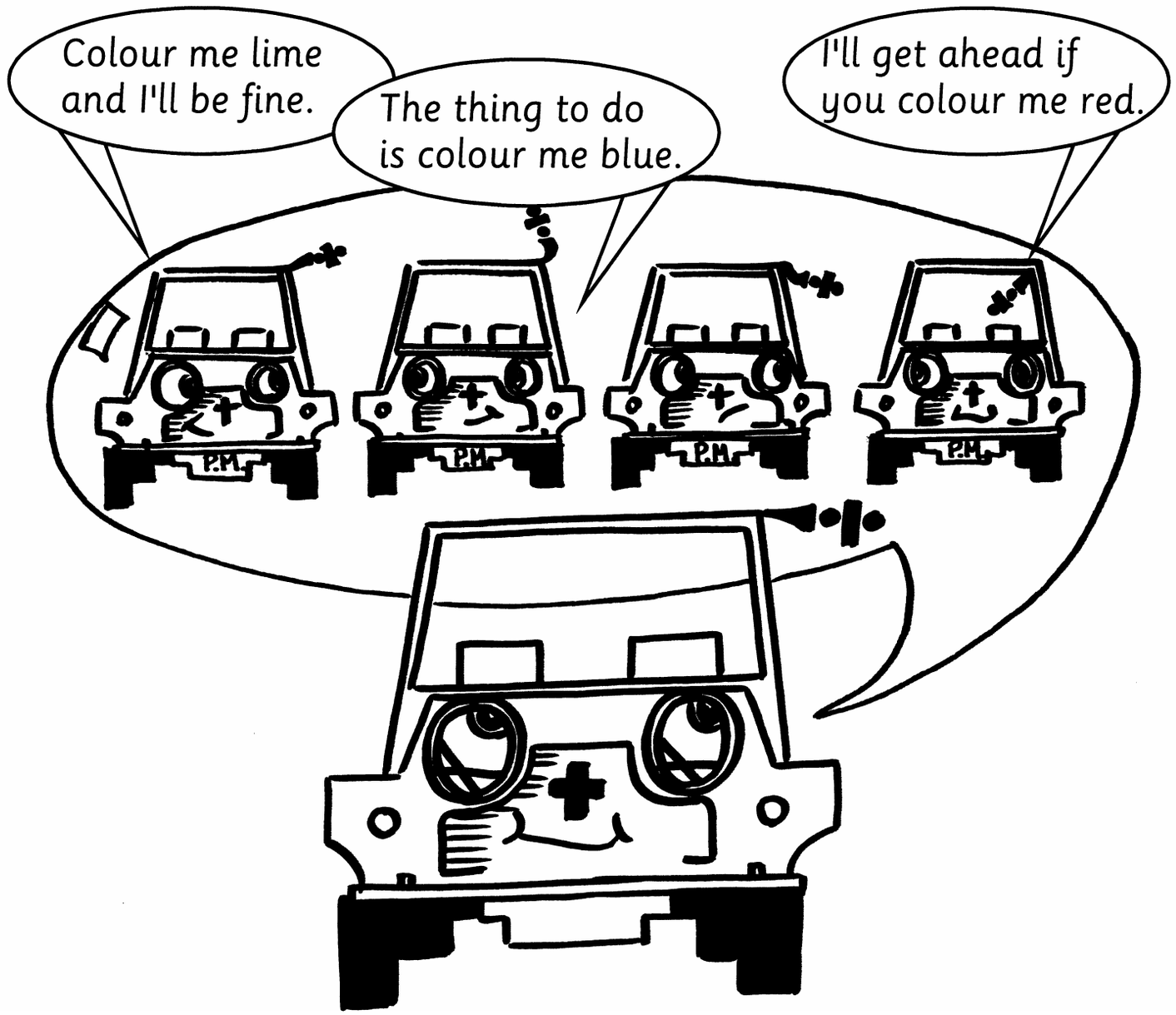


Puzzle 27

© Doug. Williams
Published for free copying
and distribution in perpetuity.

PROFESSOR MORRIS PUZZLES

Another Moke has joined the fleet.
It's a blue one and quite neat.
Again we're parking in a line.
How many different ways this time?

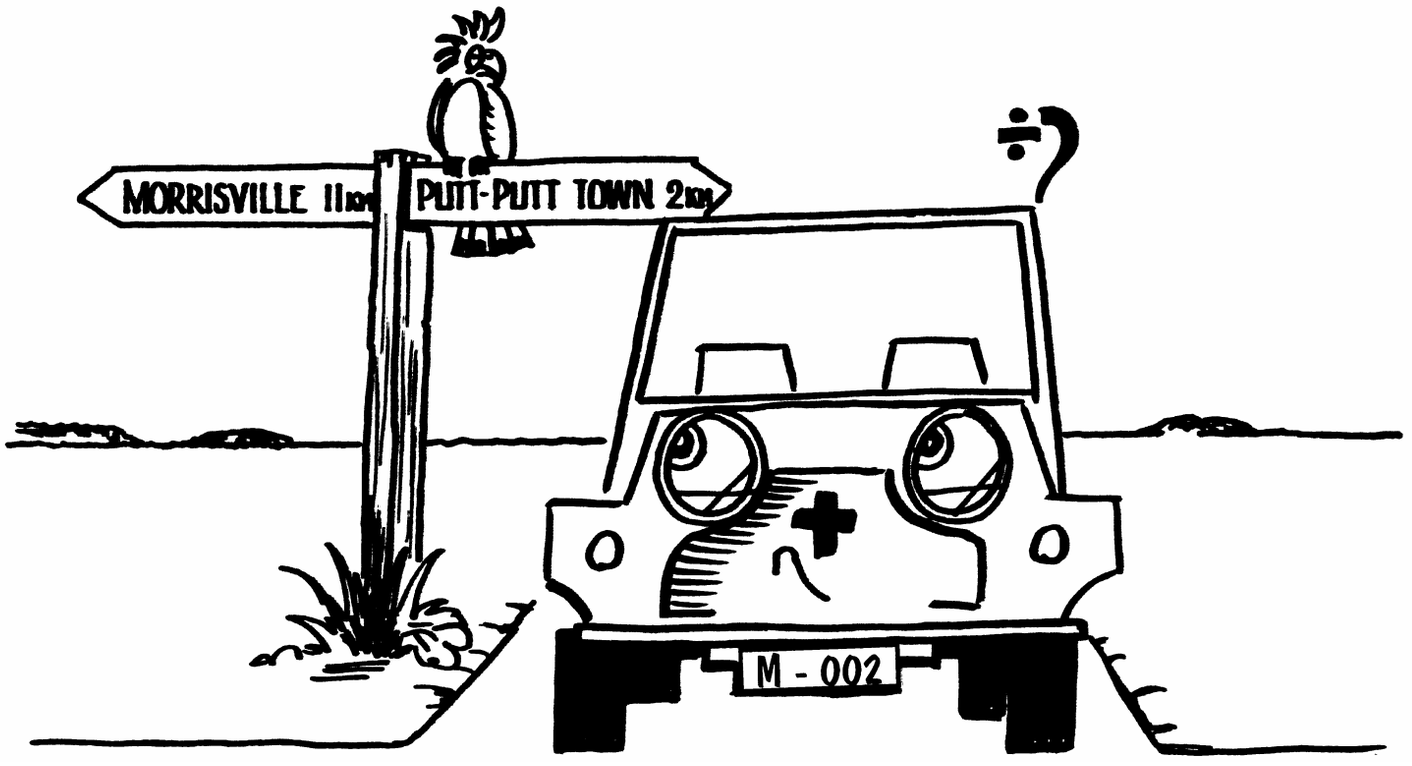


Puzzle 28

© Doug. Williams
Published for free copying
and distribution in perpetuity.

PROFESSOR MORRIS PUZZLES

One letter and three numbers
Are used in Putt-Putt land,
On number plates for cars
Which may be small or grand.
So put your mind to work,
And calculate for me,
The greatest number of number plates
That in this land you'd see.

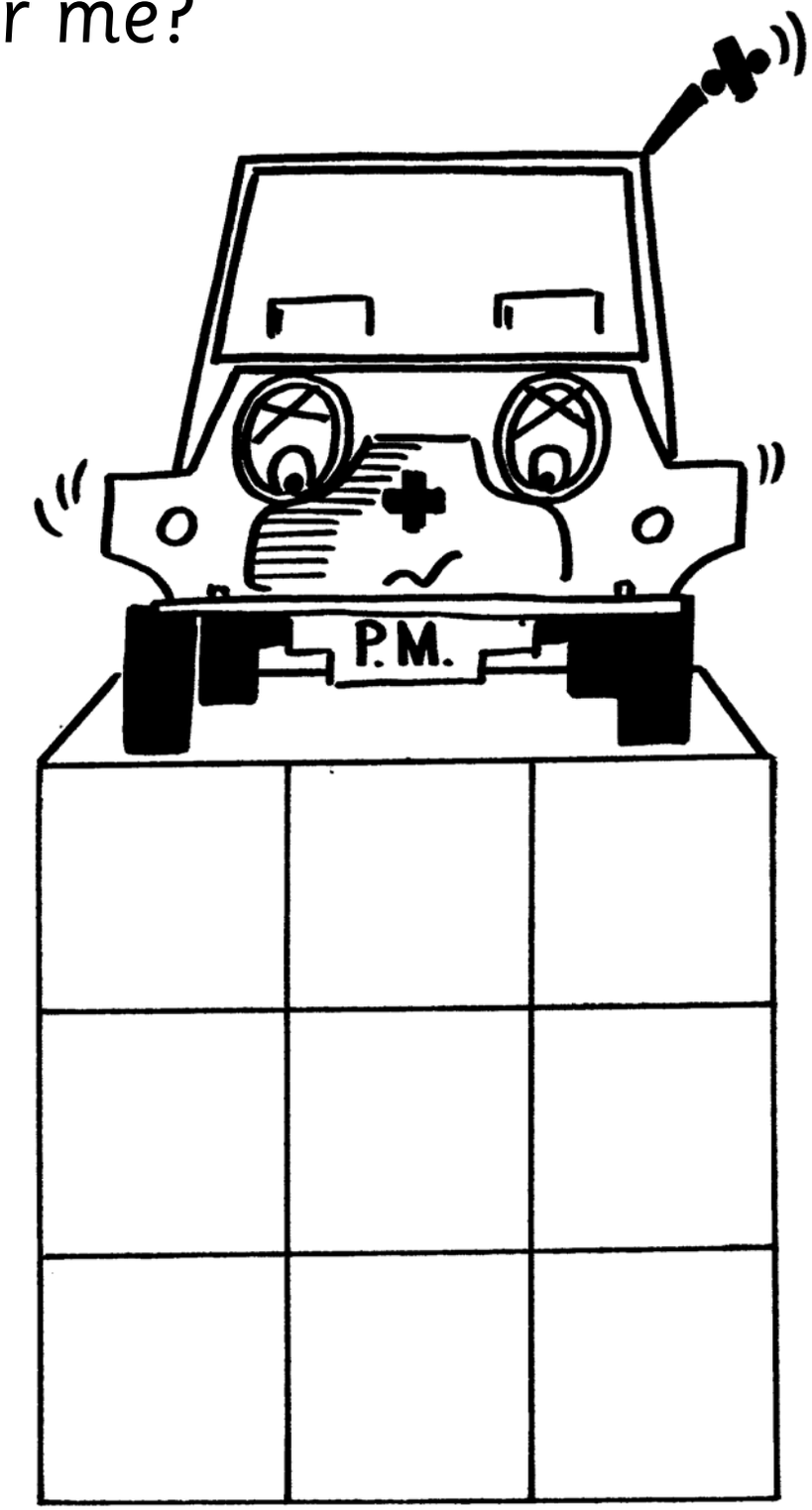


Puzzle 29

© Doug. Williams
Published for free copying
and distribution in perpetuity.

PROFESSOR MORRIS PUZZLES

Sizes one, two or three
The squares can be.
How many can you count
Below for me?

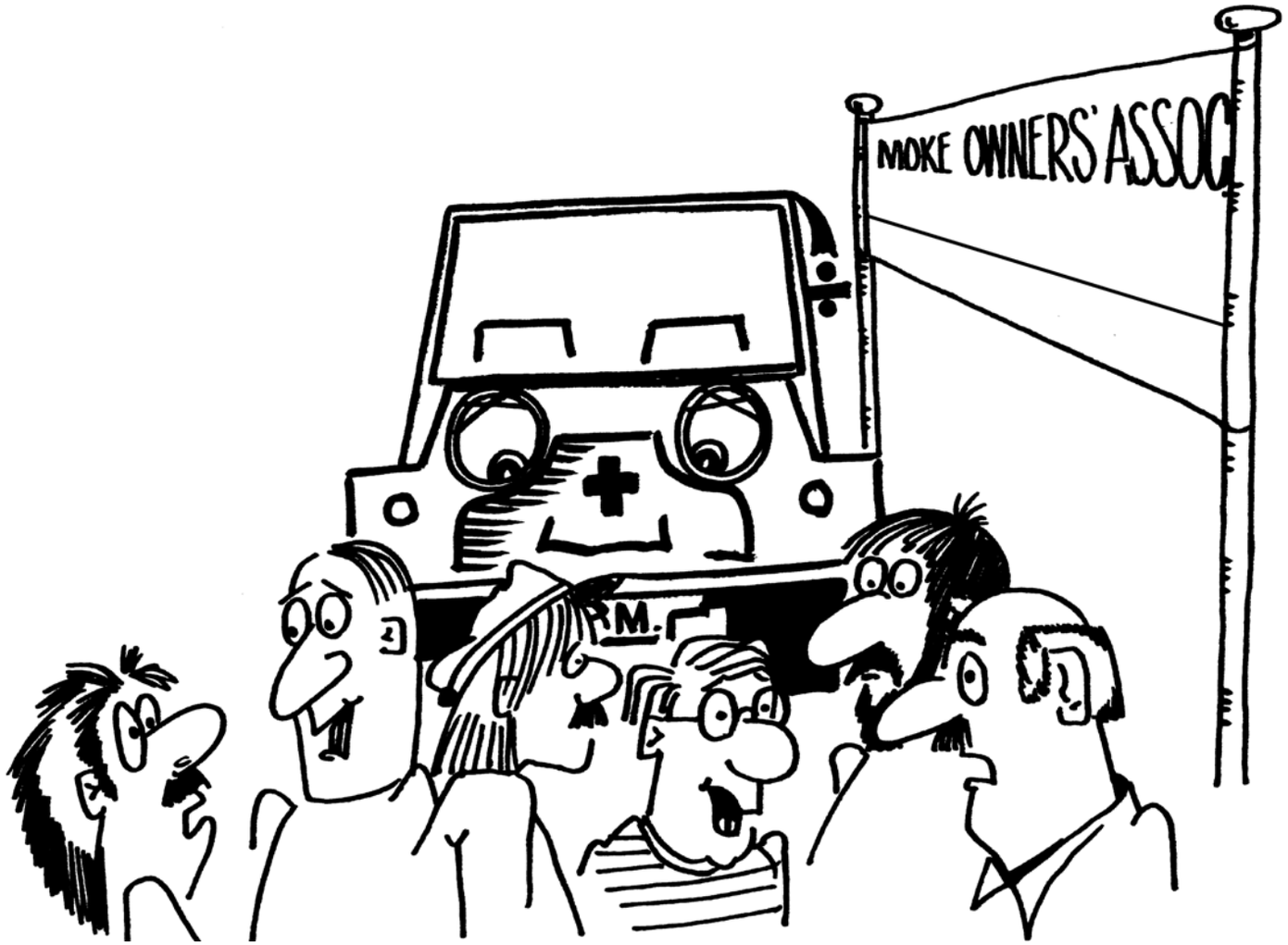


Puzzle 30

© Doug. Williams
Published for free copying
and distribution in perpetuity.

PROFESSOR MORRIS PUZZLES

There are just six men in a room.
They shake hands with each other.
How many handshakes does it take
To shake with one another?

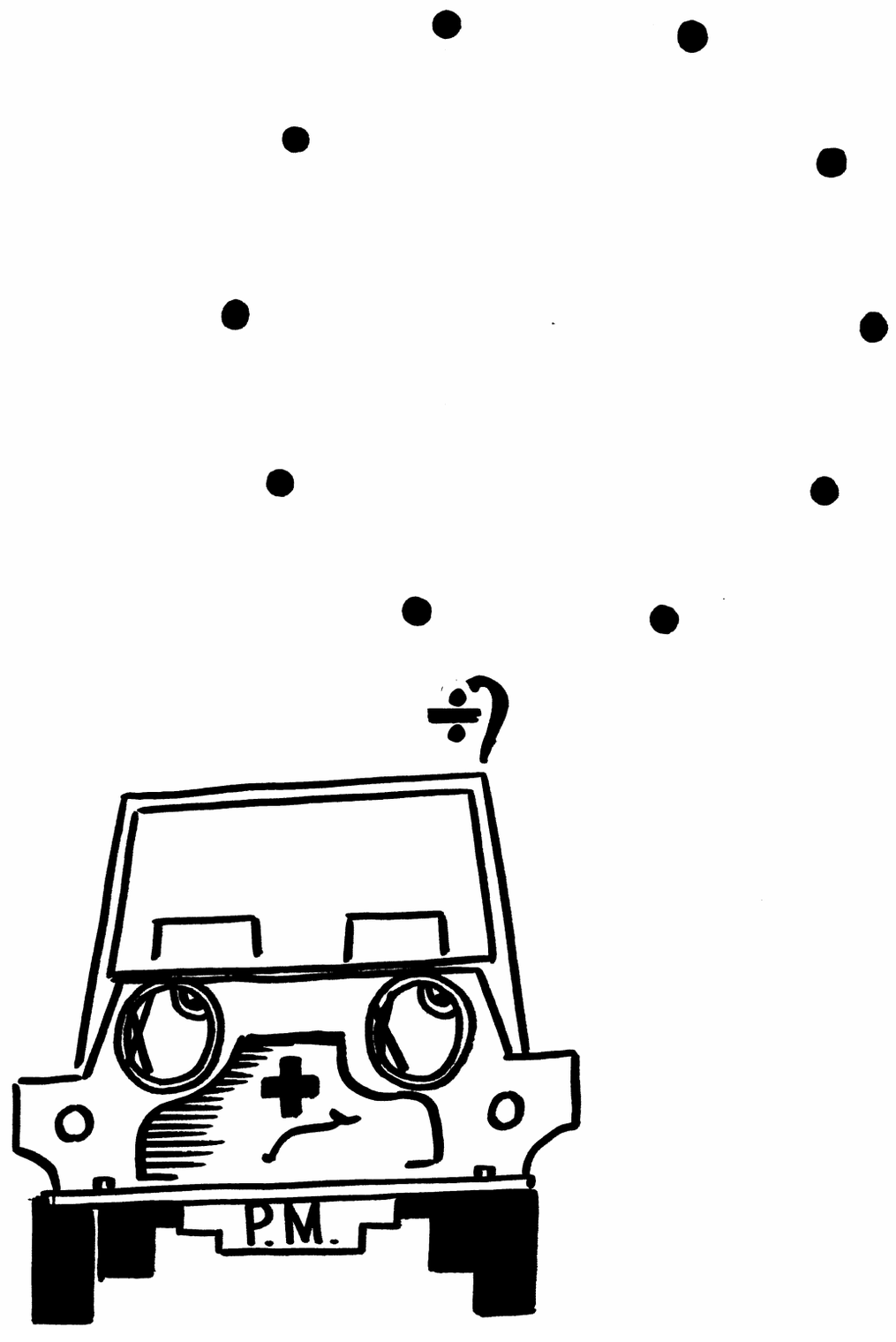


Puzzle 31

© Doug. Williams
Published for free copying
and distribution in perpetuity.

PROFESSOR MORRIS PUZZLES

Each dot joined to every other.
How many lines can you discover?

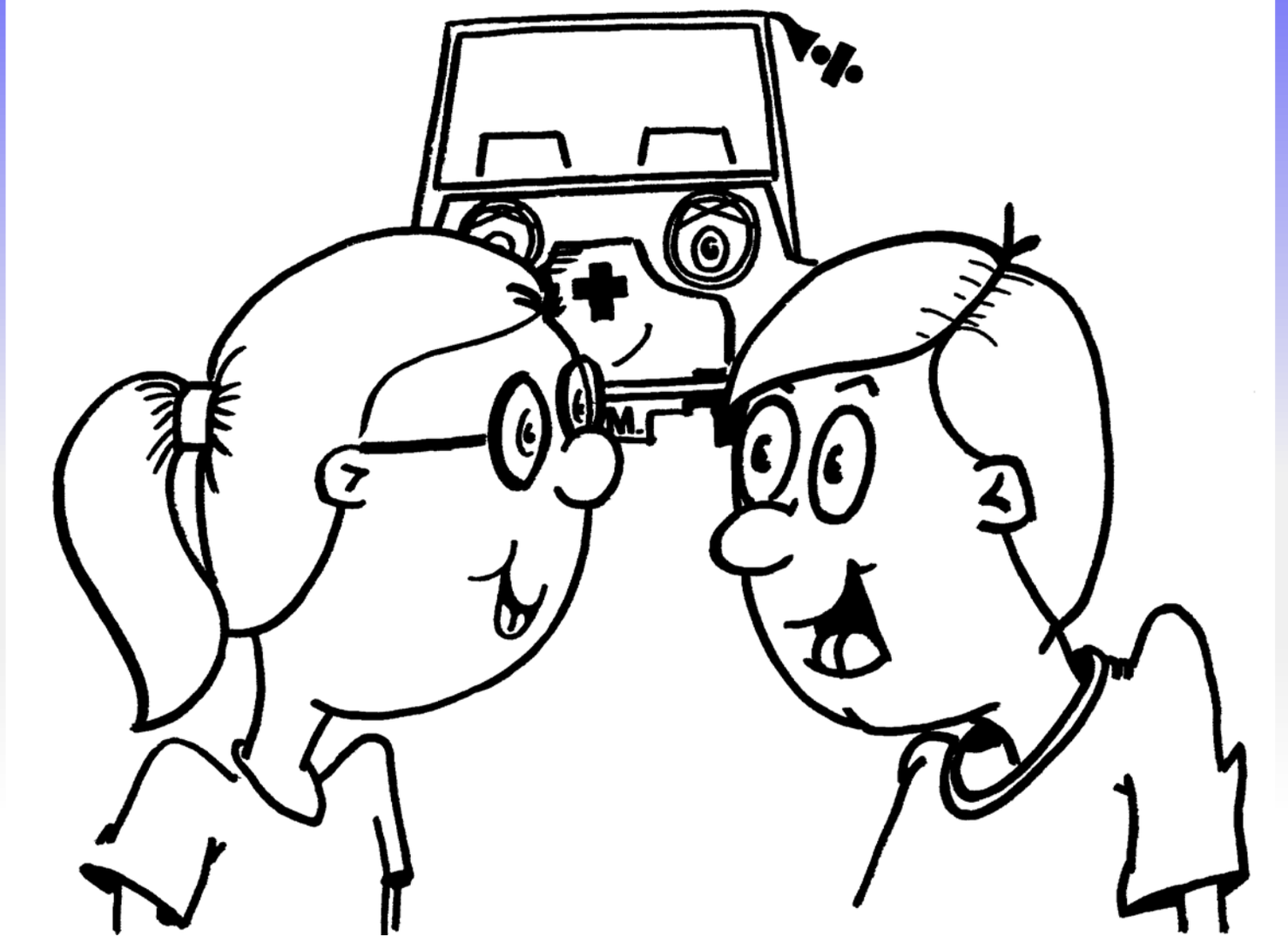


Puzzle 32

© Doug. Williams
Published for free copying
and distribution in perpetuity.

PROFESSOR MORRIS PUZZLES

There's thirty children in my class
And eight less girls than boys.
Can you tell me now you're asked
How many kids are boys?



Puzzle 33

© Doug. Williams
Published for free copying
and distribution in perpetuity.

PROFESSOR MORRIS PUZZLES

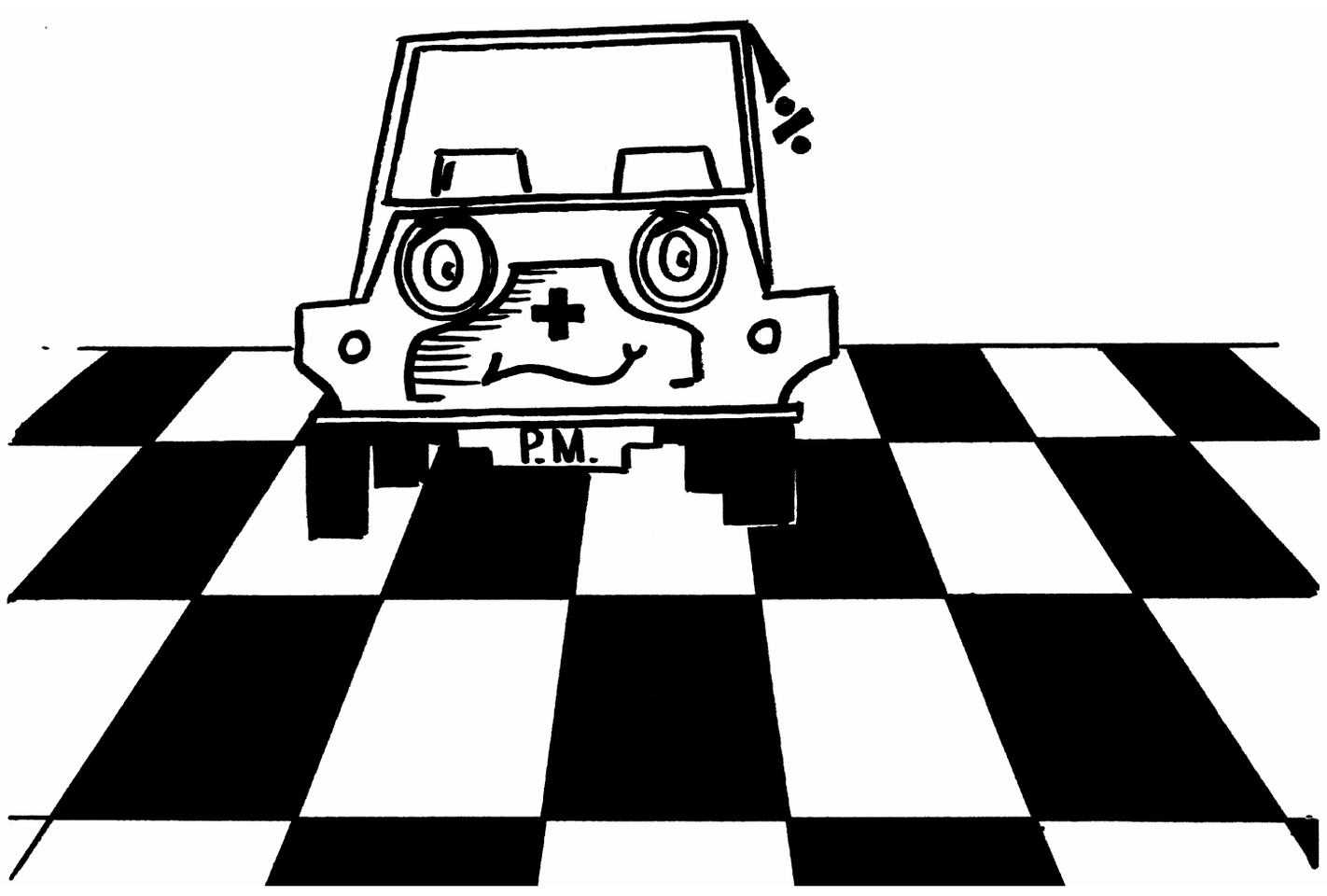
One dollar and ten for a bottle and cork
Bought at the shop when we went
    for a walk.
I'll tell you the bottle cost
    one dollar more
Than the cork, now calculate
    each price for sure.

Puzzle 34

© Doug. Williams
Published for free copying
and distribution in perpetuity.

PROFESSOR MORRIS PUZZLES

It cost one hundred dollars
To tile my kitchen floor.
If it was a little bigger
It would cost a little more.
My lounge room floor is twice as long
And also twice as wide,
So how much will it cost to tile?
Can you help me decide?

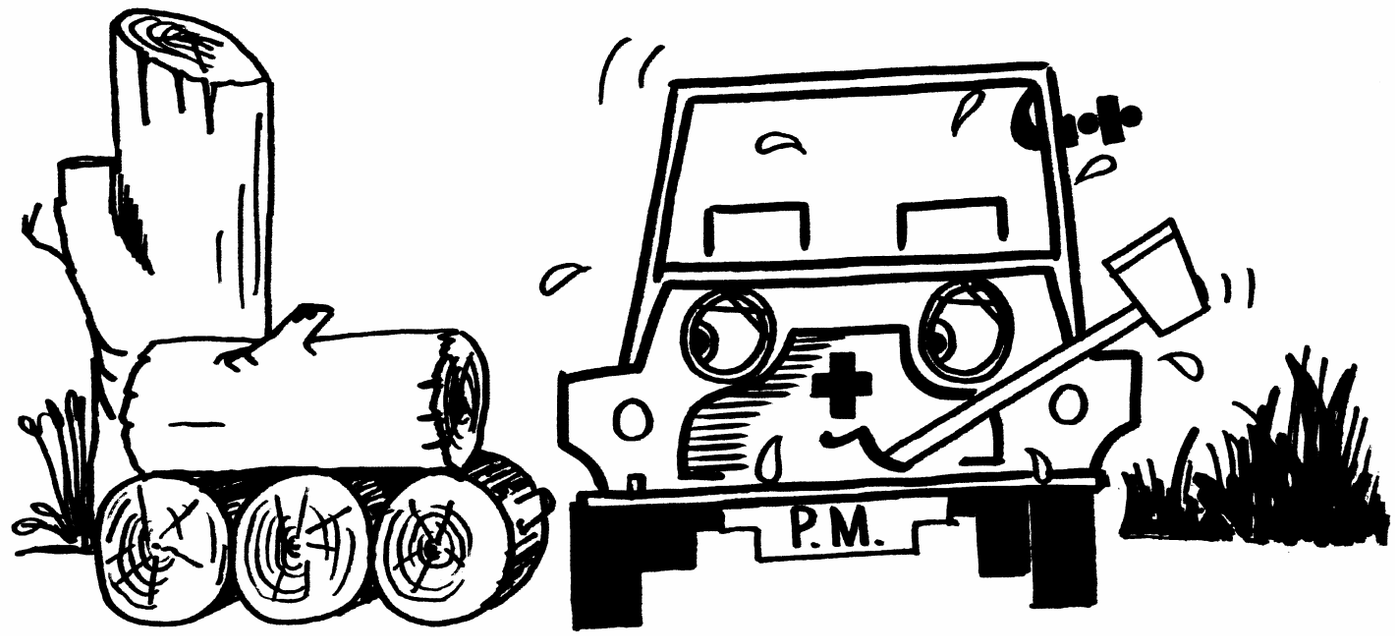


Puzzle 35

© Doug. Williams
Published for free copying
and distribution in perpetuity.

PROFESSOR MORRIS PUZZLES

When my log was cut into four
Sixty cents was the cost I bore.
If my log had been cut into eight,
What would it cost at this same rate.

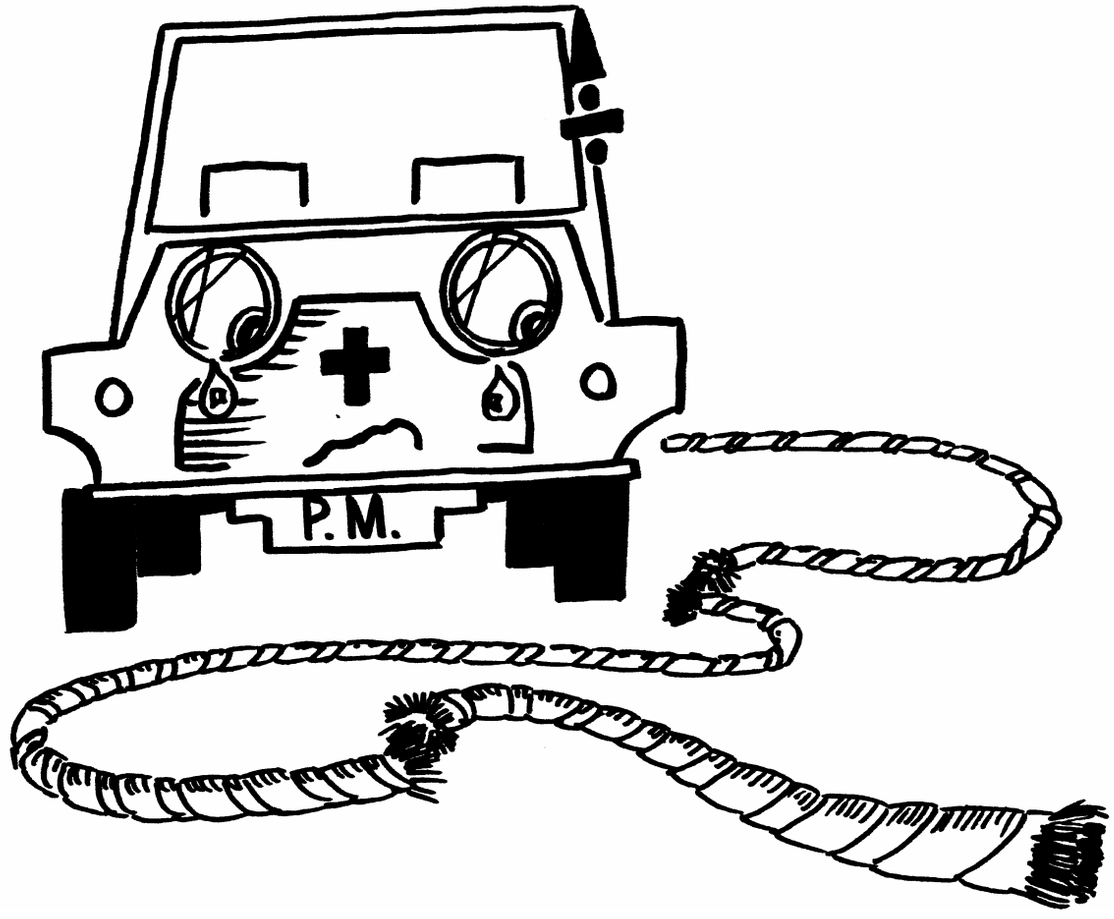


Puzzle 36

© Doug. Williams
Published for free copying
and distribution in perpetuity.

PROFESSOR MORRIS PUZZLES

My towing rope was cut in half
and half was thrown away.
The other half was cut just once
one third along its way.
The longer part (ten metres length)
is what I used today.
But how long was my towing rope
before this cutting fray?

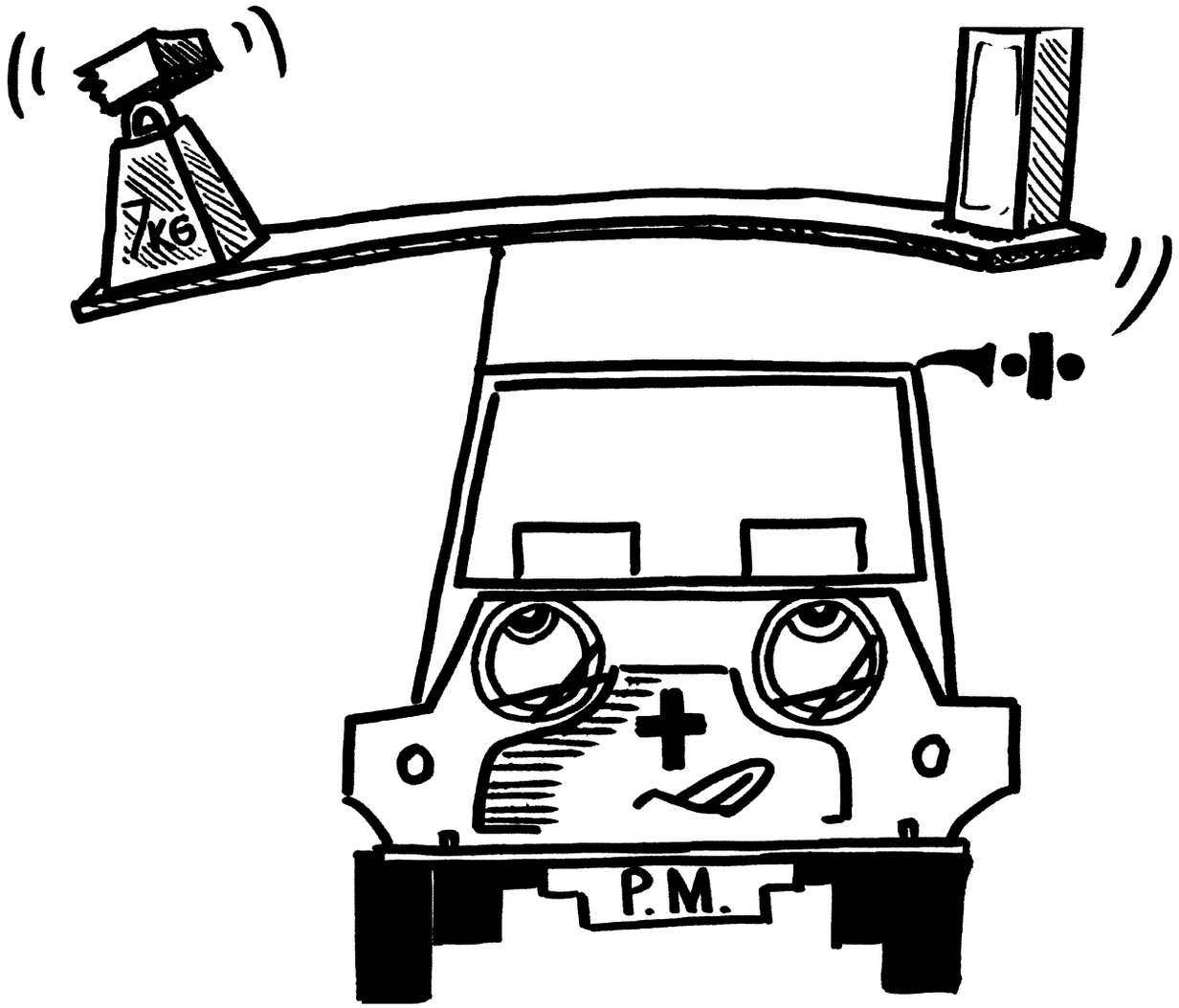


Puzzle 37

© Doug. Williams
Published for free copying
and distribution in perpetuity.

PROFESSOR MORRIS PUZZLES

Just seven kilos and half a brick
Is my brick's weight and that's no trick.
So work out now in any way
What my brick and a half would weigh.

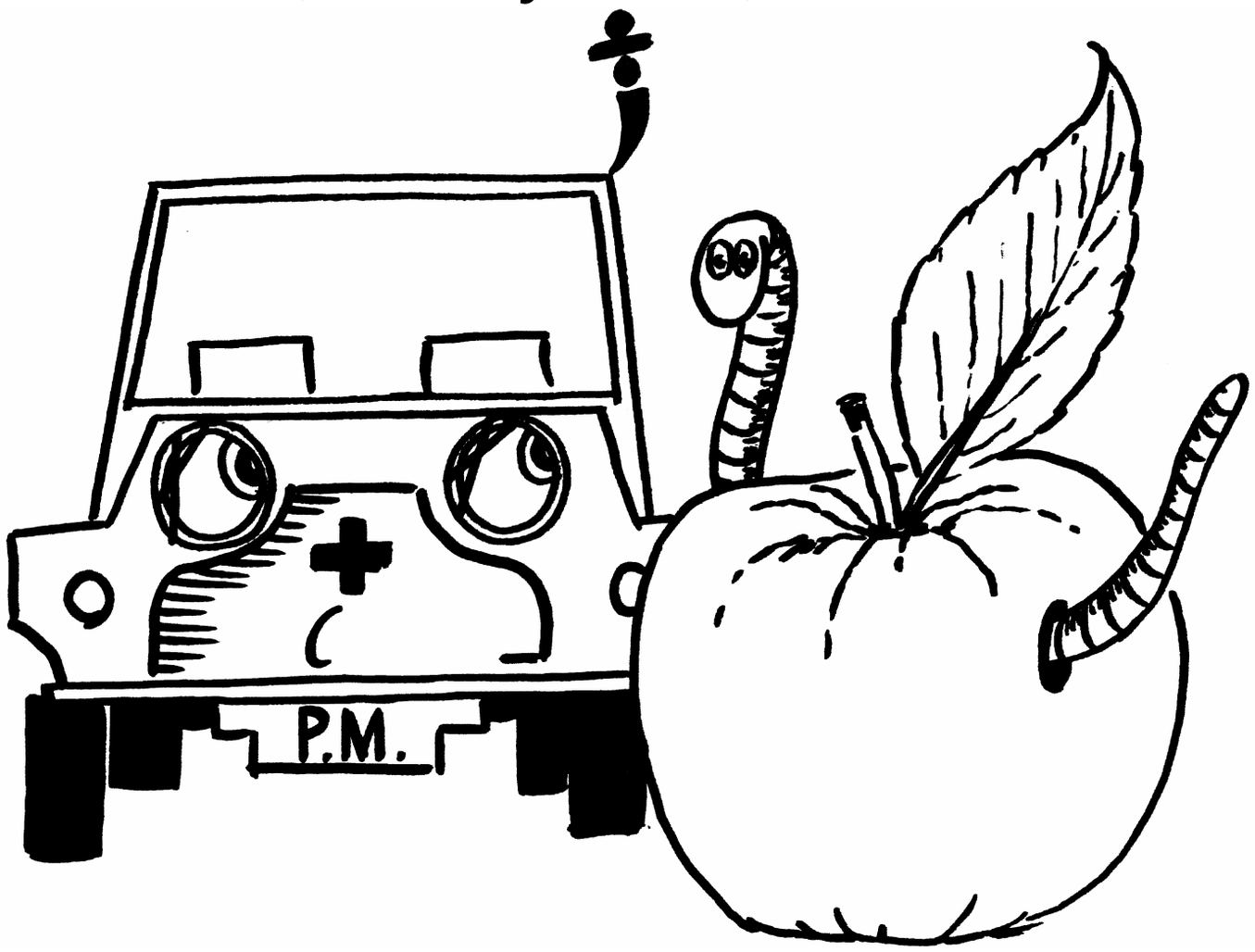


Puzzle 38

© Doug. Williams
Published for free copying
and distribution in perpetuity.

PROFESSOR MORRIS PUZZLES

I went to the green grocer just last week.
A few juicy apples I had to seek.
But the green grocer had quite a tale to tell
'Bout why there was just one apple to sell.
Customer A bought half a case
And two apples more to stock his place.
Customer B bought half those left
And stole two more. He must have been deft!
Customer C, one before me,

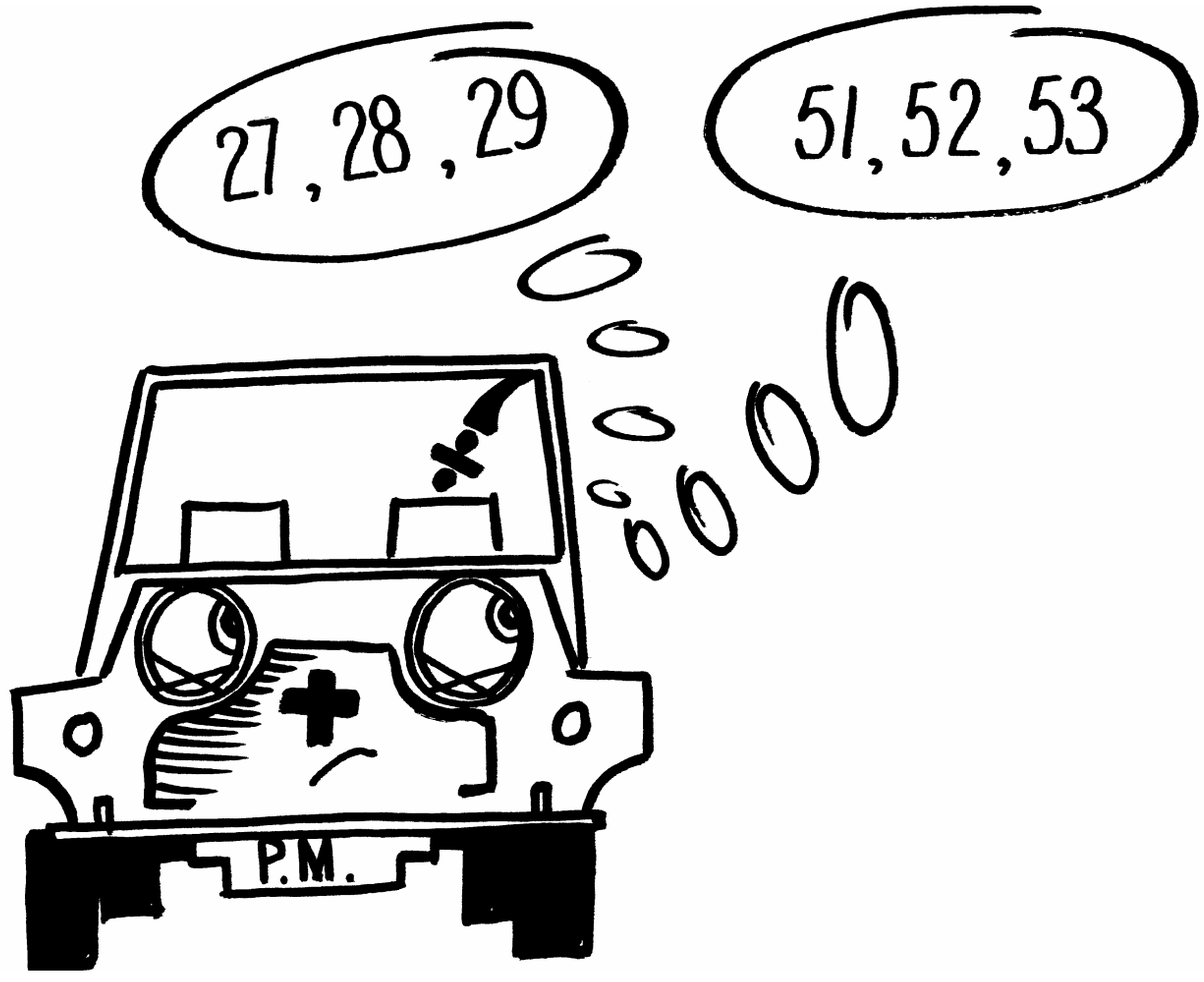


Puzzle 39

© Doug. Williams
Published for free copying
and distribution in perpetuity.

PROFESSOR MORRIS PUZZLES

Consecutive numbers it seems to me
Are really as simple as 1, 2, 3.
It never will matter the place you start
Because they are always one apart.
Now you must simply seek and find
Which three of them are in my mind.
One one four is their total sum.
Finding them out will be such fun.

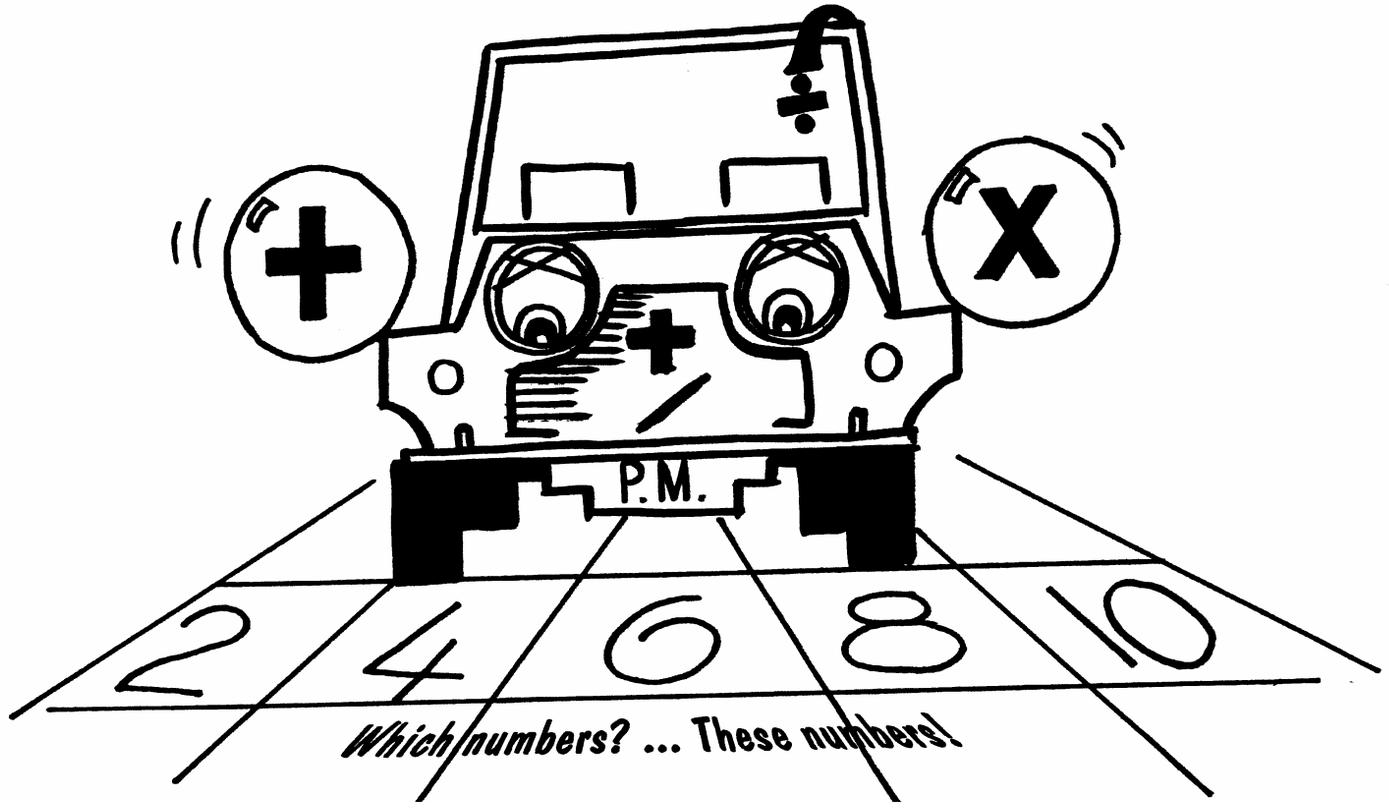


Puzzle 40

© Doug. Williams
Published for free copying
and distribution in perpetuity.

PROFESSOR MORRIS PUZZLES

To find these numbers' total
is easy if you add.
But find it out by 'times-ing'
and I'll be very glad.
Just tell me which two numbers
can multiply to be
Equal to the total and
why you chose them for me.



Puzzle 41

© Doug. Williams
Published for free copying
and distribution in perpetuity.

PROFESSOR MORRIS PUZZLES

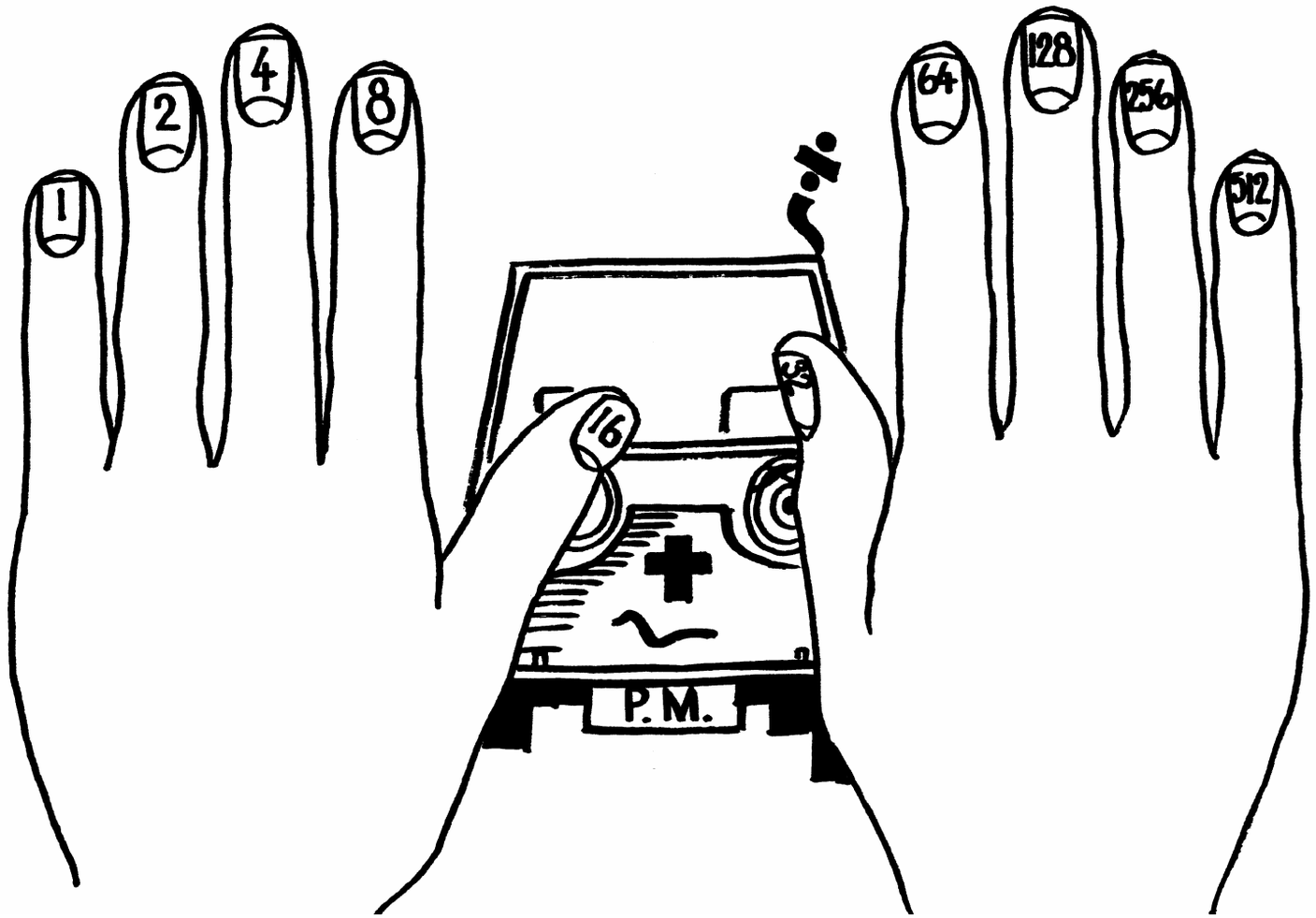
"Total the numbers from one to
one hundred!"
That's what the teacher
of little Gauss thundered.
So he found the sum
very quickly indeed
Without adding each one.
How did he succeed?

Puzzle 42

© Doug. Williams
Published for free copying
and distribution in perpetuity.

PROFESSOR MORRIS PUZZLES

A finger up is counted.
A finger down is not.
You can't add up my fingers,
But find how much I've got.

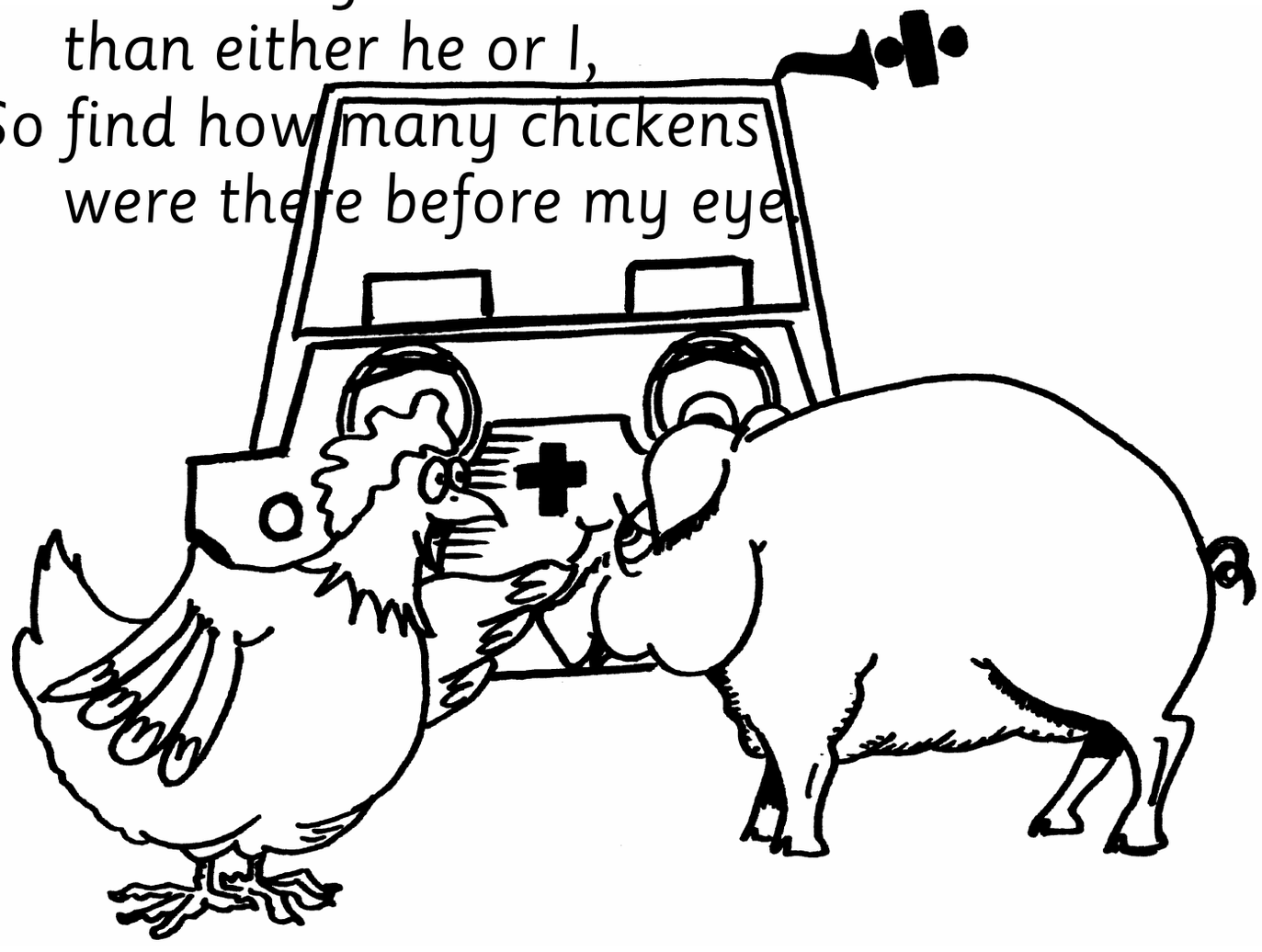


Puzzle 43

© Doug. Williams
Published for free copying
and distribution in perpetuity.

PROFESSOR MORRIS PUZZLES

Chickens and pigs are all that live
on the farm of Mr. Brown.
He counted forty-one creatures
on the day I came from town.
But I'm a silly fellow
and I counted legs instead
And found there were one hundred
which came up to be fed.
I know that you are smarter
than either he or I,
So find how many chickens
were there before my eye.

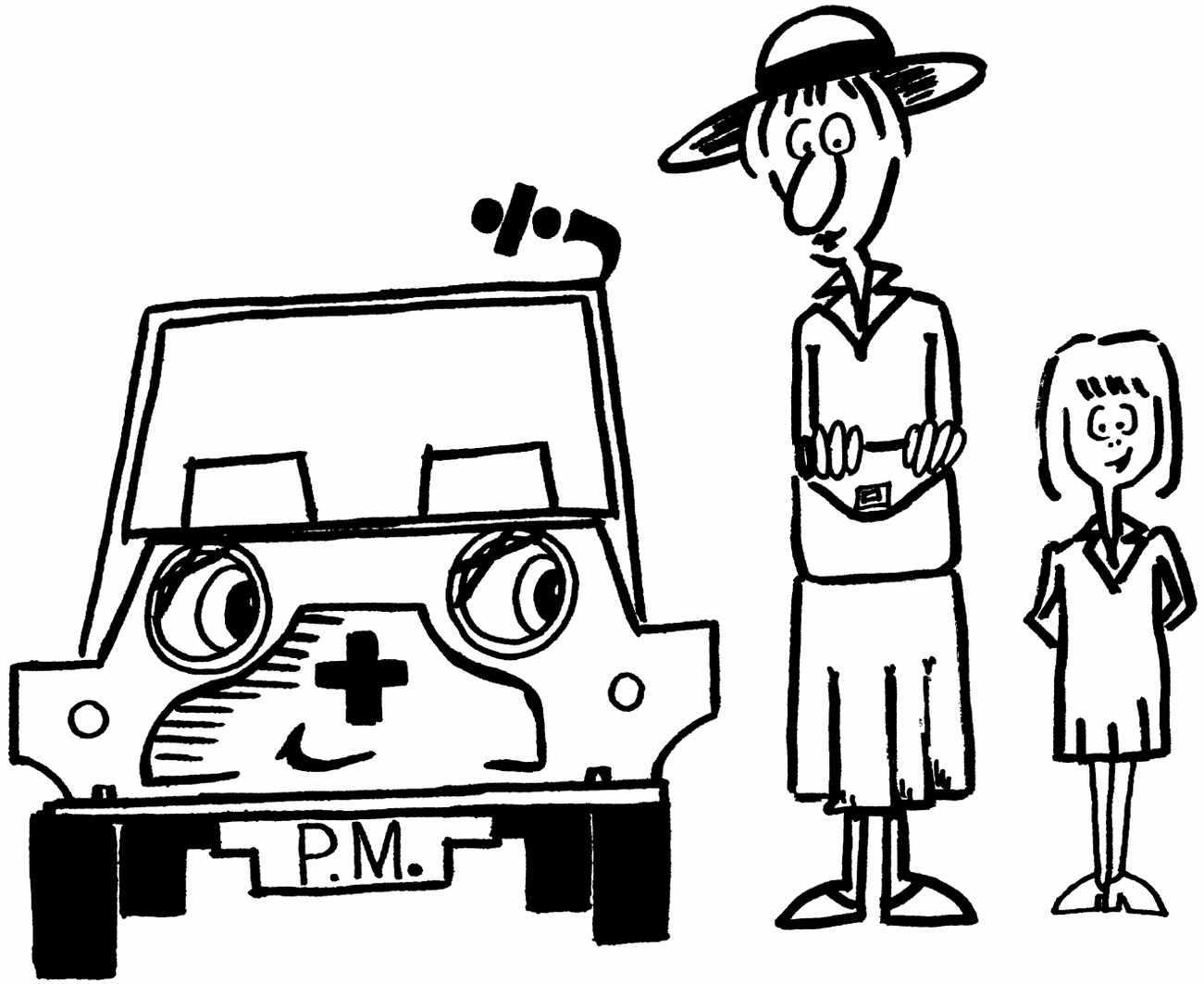


Puzzle 44

© Doug. Williams
Published for free copying
and distribution in perpetuity.

PROFESSOR MORRIS PUZZLES

Mum is now *five* times my age
And you don't have to be a sage
To calculate the years since she
Was thirty-nine and I was three.

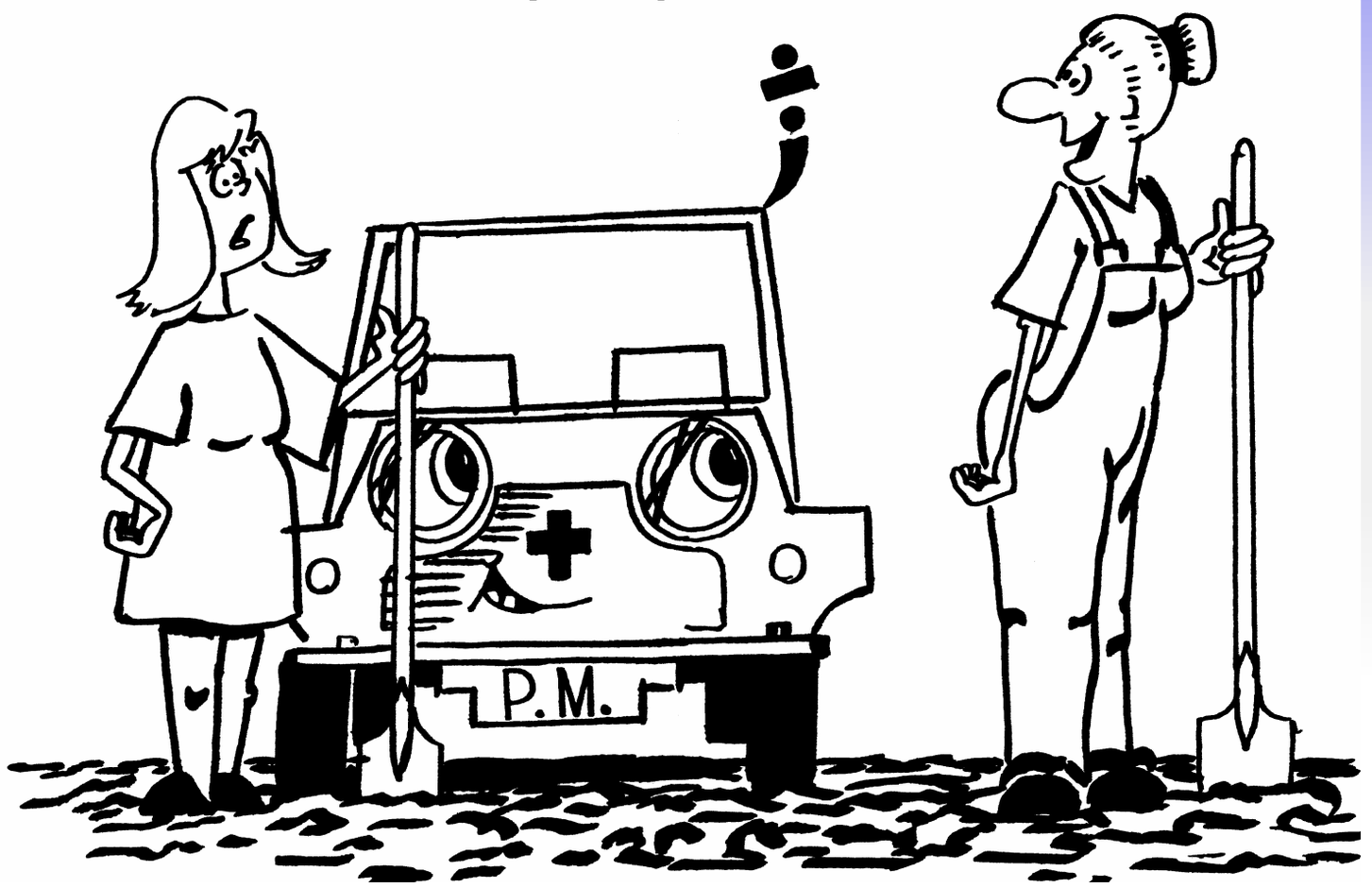


Puzzle 45

© Doug. Williams
Published for free copying
and distribution in perpetuity.

PROFESSOR MORRIS PUZZLES

Sue can dig my garden;
It takes her half an hour.
Young Jan takes twenty minutes,
But then she needs a shower.
If they work together
Just how long will it be
Before these two hard workers
Have done this job for me?

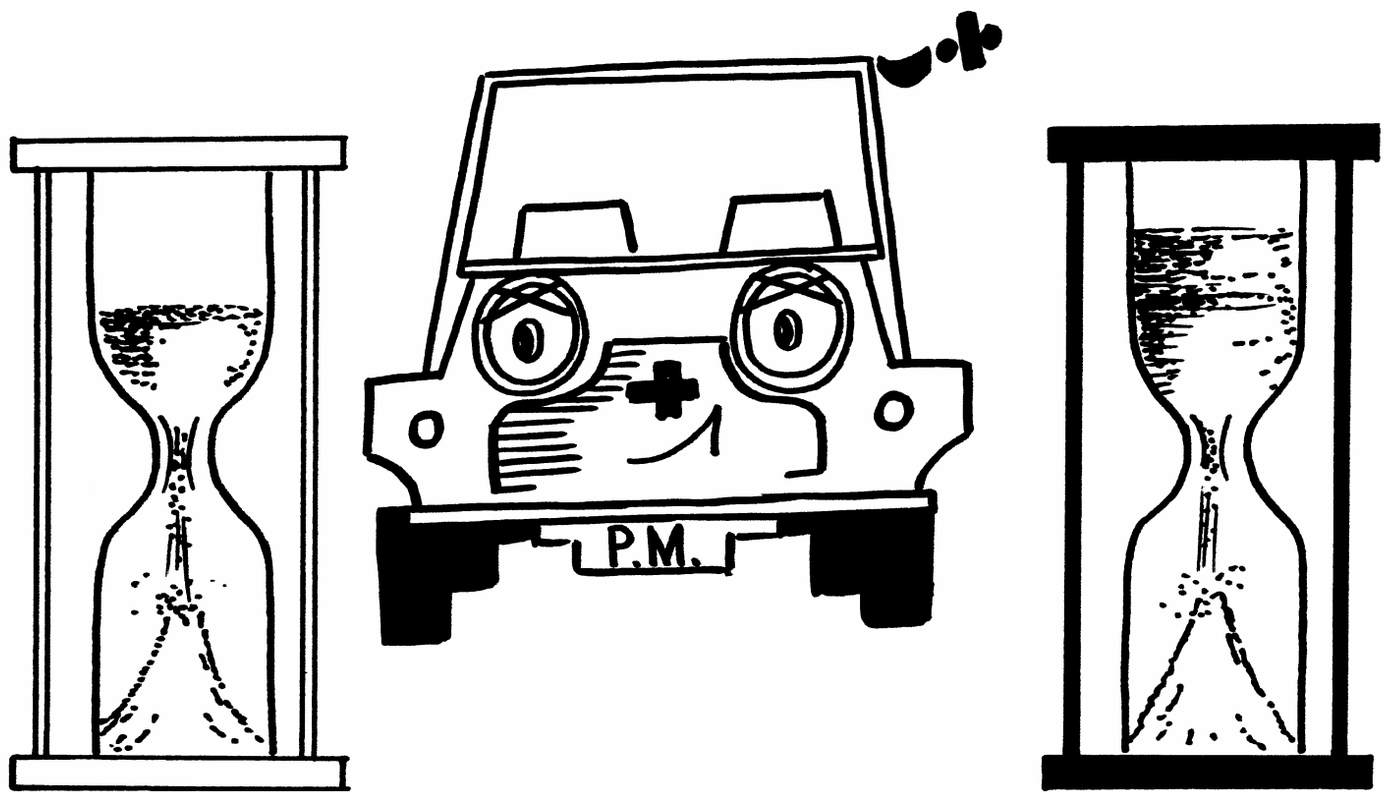


Puzzle 46

© Doug. Williams
Published for free copying
and distribution in perpetuity.

PROFESSOR MORRIS PUZZLES

I used two diff'rent egg timers
When last I had to cook.
One ran for just four minutes,
The other seven took.
But I had to time ten minutes,
Which wasn't easy friend,
So can you rediscover
How I did it in the end?

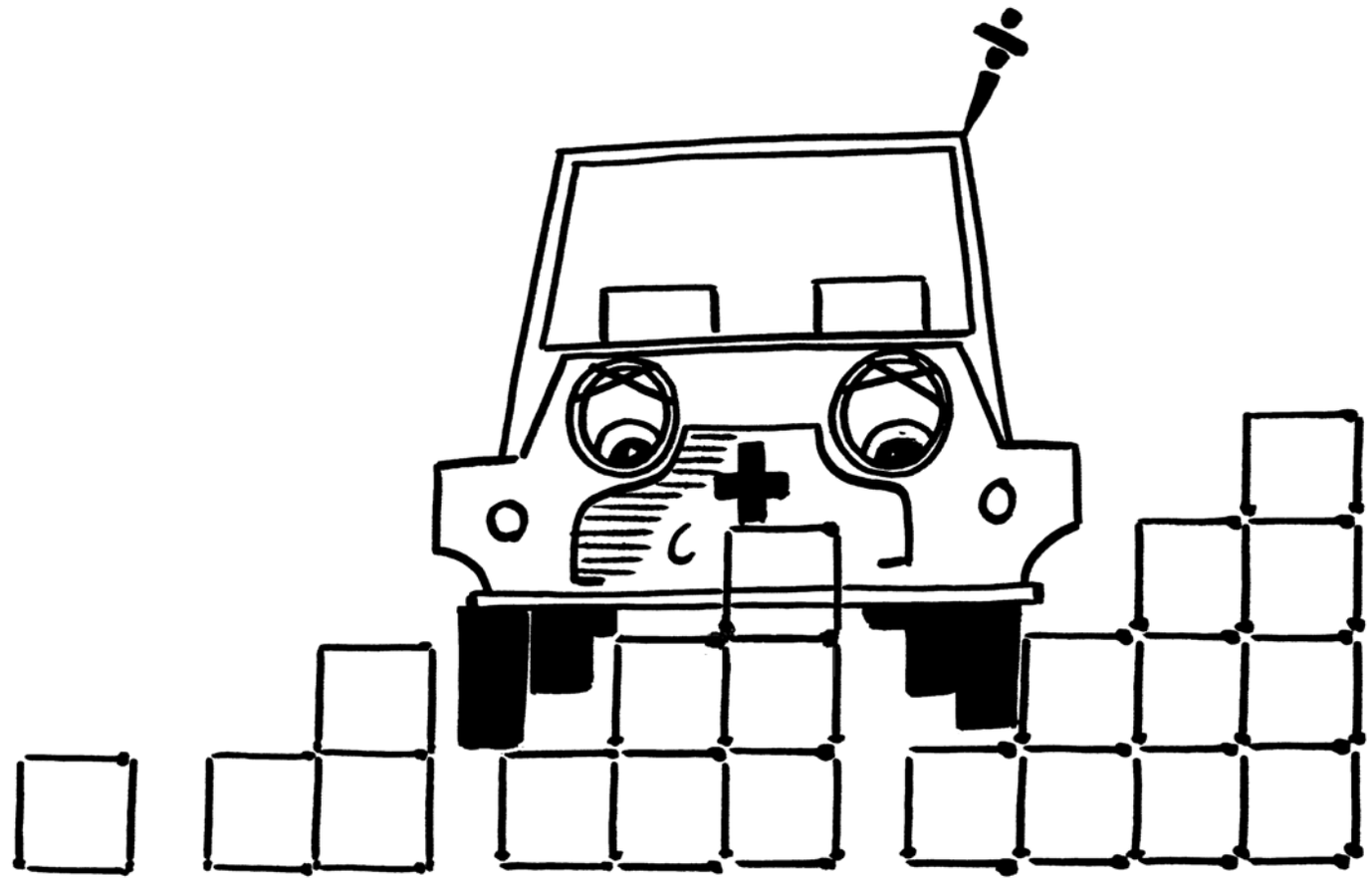


Puzzle 47

© Doug. Williams
Published for free copying
and distribution in perpetuity.

PROFESSOR MORRIS PUZZLES

How many steps in the largest stair
I can make, if there's one hundred
matches to share?



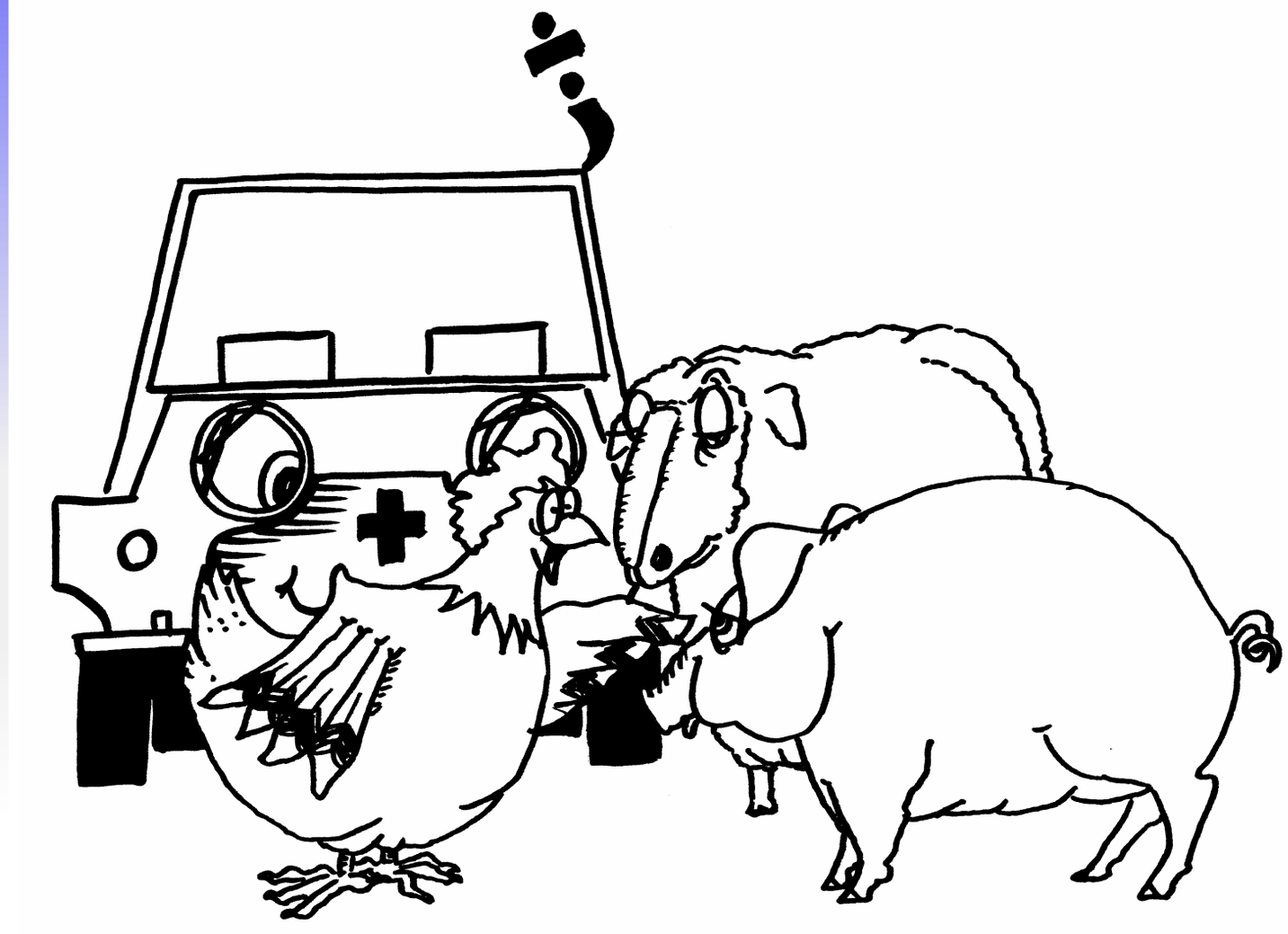
...and...

If 'n' is the steps find a formula
For the number of matches by algebra.

Puzzle 48
© Doug. Williams
Published for free copying
and distribution in perpetuity.

PROFESSOR MORRIS PUZZLES

A hundred dollars a farmer paid
For a hundred animals
    'through the trade'.
Sheep were ten dollars, pigs were two,
Hens were fifty cents. What did she do?



Puzzle 49

© Doug. Williams
Published for free copying
and distribution in perpetuity.

PROFESSOR MORRIS PUZZLES

If the sheets from all newspapers
printed today,
Were laid end to end
to make a pathway,
Which started from here,
Crossed land and crossed sea,
Where would the end of it
turn out to be?

Puzzle 50

© Doug. Williams
Published for free copying
and distribution in perpetuity.