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# BRAIN TWISTERS

By BOB "BARON" DERRENERGER

*Note: We have received a few contributions to the Brain Twisters column and are anxious to get more. If you have any, hand them to Frank Rhodes or Bob Derrenberger.*

EACH OF THE QUESTIONS COUNT 2½ POINTS

1. Who was the outstanding American aviation ace in the World War?
2. In what play does Shakespeare warn the world against men who are overly lean?
3. A decathlon is a part of what quadrennial event?
4. Why is a collection of maps called an atlas?
5. What were the lares and penates?
6. What have the following in common: Percheron, Clydesdale, Suffolk punch?
7. Why was the Czar of Bells in Moscow never rung?
8. Who or what is The Flying Dutchman?
9. What is a tome?
10. *The Virginian* was written by: 1. Mark Twain; 2. Thomas Nelson Page; 3. Owen Wister.
11. Is it illegal to destroy a United States coin?
12. Does the phrase "patent applied for" protect an inventor?
13. Can an Indian become President of the United States?
14. What is a "blue sky" law?
15. Can a naturalized citizen of the United States be deported therefrom?
16. What are the plural forms of the following words: apex, genus, radius?
17. What is Stoke Poges?

18. Would an (1) author (2) safe-cracker (3) plumber be most likely to be guilty of plagiarism?
19. Who went to bed with his stockings on?
20. What is the Jolly Roger?

EACH OF THE FOLLOWING PROBLEMS COUNT 12½ POINTS

*The problems for this issue were submitted by Norman "Beel" Schoewe. If you can't work them see Norm.*

1. A mason had a balance scale and a block of stone which weighed forty pounds. He wished to cut the stone into four pieces of convenient size so that by using various combinations of the four pieces he could weigh out any number of pounds from one to forty inclusive. Into what size (weight) pieces should the stone be cut?

2. A miner, out of work, has a heavy gold chain of 50 links. Each link is worth \$1.00. He guaranteed his landlord a link a day for room and board. After the fifty days are up, at which time the mine will again open, the miner plans to redeem the chain and have it soldered together. How few links can be cut to pay the landlord a link a day? Which links should be cut?

3. A man, flying toward a distant airport at a set rate of speed, lands at another airport short of his destination where he stays 10 minutes. Proceeding at  $\frac{4}{5}$  his set rate, he arrives at his destination 31 minutes later than had he flown straight toward it at the set rate of speed. If the airport at which he first stopped had been 10 miles further he would only have been 25 minutes late. How fast was he traveling at the set

rate of speed and how far was his destination?

4. A ship is twice as old as the boiler was when the ship was as old as the boiler is now. At present the age of the ship plus the age of the boiler equals 28 years. How old is the ship? The boiler?

A good score is 85 or above.

A fair score is 70-85.

A passing score is 60-75. Any score below 60, well . . .

*(For answers turn to page 18)*

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## **ANSWERS TO BRAIN TWISTERS**

*(See page 13 for Brain Twisters)*

1. Eddie Rickenbacker.
2. Julius Caesar.
3. The Olympic Games. A decathlon is a composite contest composed of ten events.
4. Yes.
5. The household gods of the ancient Romans.
6. They are all breeds of draft horses.
7. Because the bell was cracked before it was finished.
8. A legendary ship seen off the Cape of Good Hope in stormy weather. Its captain swore he would round the Cape if it took him till the Judgment Day.
9. A ponderous book.

10. (3) Owen Wister.
11. It is not illegal to destroy a U.S. coin. It is illegal to deface or clip a coin.
12. No. It merely establishes the fact that an inventor may in the near future be protected from competitors.
13. In June, 1924, Congress passed a law making all Indians citizens. All Indians born after this date are, therefore, eligible for the presidency.
14. A blue sky law is a law governing the marketing of new issues of securities.
15. No.
16. Apices, genera, radii.
17. The site of the graveyard in which Gray's Elegy was supposed to have been written.
18. (1) Author.
19. Deedle, deedle dumpling, my son John.
20. The black flag of piracy.

\* \* \*

1. 1 pound, 3 pounds, 9 pounds, 27 pounds.
2. He cuts 3 links; 5, 14, and 31.

The first day he cuts through the 5th and gives it to his landlord; the second day the 14th; the third the 31st. The fourth day he gives him the first group of 4 links, in return for the 3 single links. The next three days he gives him the 3 links; then he gives him the second group of 8 links, getting back the first 7. He pays out the three singles again, then the group of four, etc., continuing until the 50 days are gone.

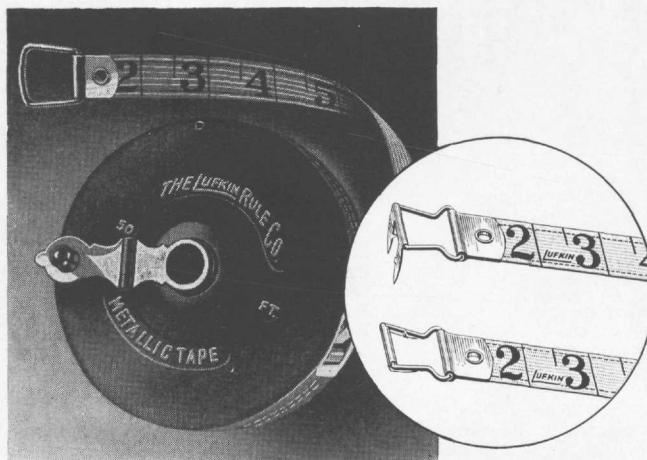
3. He flew at 125 m.p.h. and the distance was 160 miles.

Solving with two unknowns, result is as follows:

$$\begin{array}{r}
 X \quad 4X \quad 21 \\
 60 \quad - \quad + \quad - \quad - \quad = \quad Y \\
 60 \quad 5 \quad 60 \\
 X \quad \quad \quad 4X \quad 15 \\
 60 \quad - \quad + \quad 10 \quad + \quad - \quad - \quad = \quad Y \\
 60 \quad \quad \quad 5 \quad 60
 \end{array}$$

When X equals rate in m.p.h. and Y equals distance flown, solving by subtracting the second equation from the first and solving X equals 125; substituting Y equals 160.

4. Ship is 16 years old. Boiler is 12 years old.



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