

This Year..



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NZU27

PUZZLES

ARCHING THE ARYAN NOSE

THERE are some particularly choice problems on hand at present. Puzzlers have rallied very well from the latest shocks of war and this week's puzzle about the Census will show the enemy that our morale is getting better and better. Now that Mr. McCall is going to tell the BBC all about it—see page 17—we can expect any minute a request for a special feature from us directed to Germany and Italy for confusion purposes. The problem we have called Census, for example, would no doubt arch the most Aryan nose. Here it is:

PROBLEMS

Census

Three sisters each have one son and one daughter. Each has a saving bank account in which an uncle has made deposits in this manner: when each child was one year old he placed in his or her bank £1, and annually thereafter he deposited in each child's bank two pounds more than on the last preceding birthday. The money has been allowed to remain in the bank, and each boy's bank now contains £45 more than his sister's. The names of the boys are William, John, and Frank. The names of the girls are Mary, Agnes, and Jane. If William is 17 years older than Mary, and John is seven years older than Agnes, find the sister of each brother. (Problem from Ajas, Dunedin.)

X Marks the Spot

Some of the figures in this sum are missing, and must be supplied, or mother won't have enough soap for the washing next Monday. The decimal point is the key to the method, which must be fully logical, and not a matter of trial and error:

$$\begin{array}{r}
 \text{XXXX.XXXX} \\
 \text{XXX) XXXXXX} \\
 \underline{\text{XXX}} \\
 \text{XXX} \\
 \underline{\text{XXX}} \\
 \text{XXX} \\
 \underline{\text{XXX}} \\
 \text{XXXX} \\
 \text{XXXX} \\
 \hline
 0000
 \end{array}$$

(Problem from R.G.)

Bacchus in Bolonia

In the kingdom of Bolonia the king and his ministers held high revel together each week. Each minister drank from a conical wineglass while the king had his in a mug. The top of each glass had the same diameter and each

glass had the same internal depth as the king's cylindrical mug, so the king had as much wine as three ministers. In times of crisis, the glasses were regraded. The Prime Minister's glass remained the same, but the next minister below him had a glass the diameter of the top of which was smaller by a certain percentage than the Prime Minister's. The next bore a similar relation to this, and so on. The depths remained unaltered. The king's mug now contained as much as the first four ministers. What was the percentage decrease in the successive diameters. (Problem from R.G., Waihi. It is one for

which he asks an answer, not yet having managed that himself.)

For Golfers

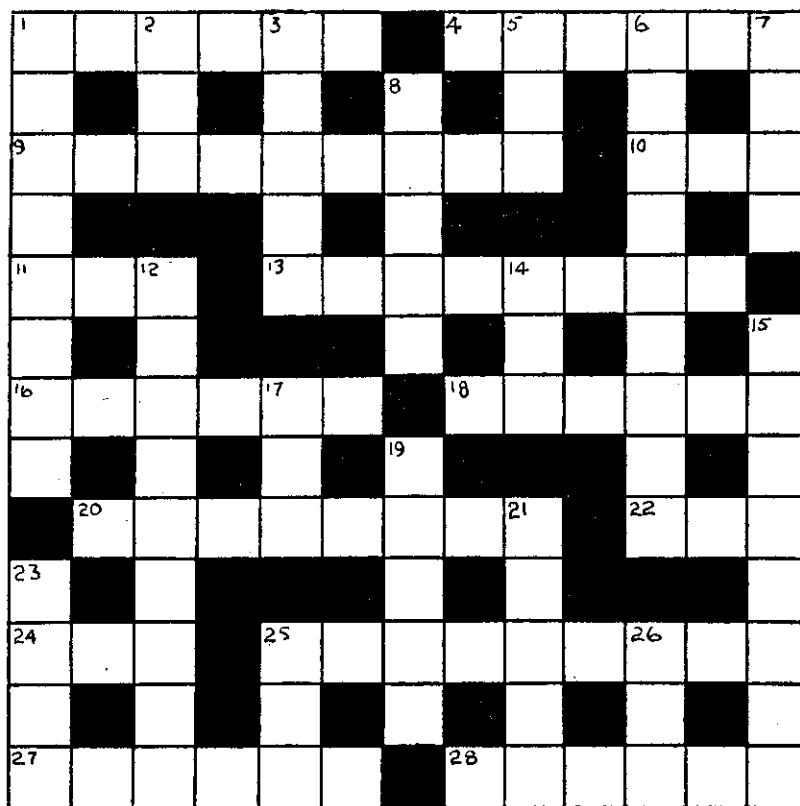
In the following rhyme, the letters represented by X's form three words, each containing the same letters and each with the same number of letters. What are they?:

"Off to the links!" is now the cry,
"For golf is man's XXXXXXXX"
"Nor XXXXXXXX be not slow
"XXXXXXX strike, the ball will go."

(Problem from L.W.J.S., Tauranga.)

The Listener Crossword (No. 31)

(Constructed by R.W.C.)



Clues Across

- He lost this community dwelling.
- Arranged in folds with a red pad.
- Eulogy.
- Acknowledgment of debt.
- The centre of 10 across in full.
- Entangled with Shem in Eden.
- Dora in a hostile incursion.
- Opinion contrary to accepted doctrine.
- I'm on, chap! (anag.).
- Total.
- Popularly supposed to be company.
- Of an angle, pointing inwards.
- Frequently thrown on the athletic field.
- A vegetable remaining when it is removed from swiftness.

Clues Down

- Tiny chop (anag.).
- The beginning of sincerity.

- Beheld a dog and find a bird.
- Fabulous bird of huge size.
- Invaluable, or merely supremely amusing.
- An instrument of very ancient origin, made partly of mud.
- Fragrance.
- Hew mortar (anag.).
- Entreat.
- Mystery about one thousand results in balance.
- Direct.
- Smile for a considerable distance.
- Substance used in making explosives.
- One of the United States, founded by Mormons.
- Grain.
- You can grind this figuratively as well as literally.