

iq

Counting critters  
Mensa puzzle 799

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Mensa  
The High IQ Society

A zoo has twice as many penguins as it has flamingos and it has 26 more flamingos than monkeys. If it had three times as many monkeys it would have seven more penguins than monkeys.

How many of each does the zoo have?



Roots of the problem  
Mensa puzzle 800

The top half and the bottom half are on interlocking rotating systems. When they move round they will realign so that four types of vegetables are read downwards.

What are they?



Walk to word  
Mensa puzzle 801

Move from square to touching square to find the longest possible word.

What is it?

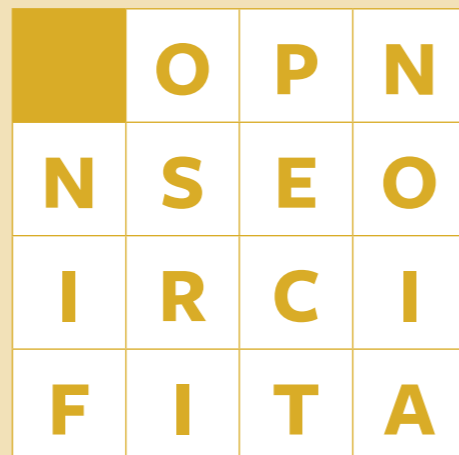
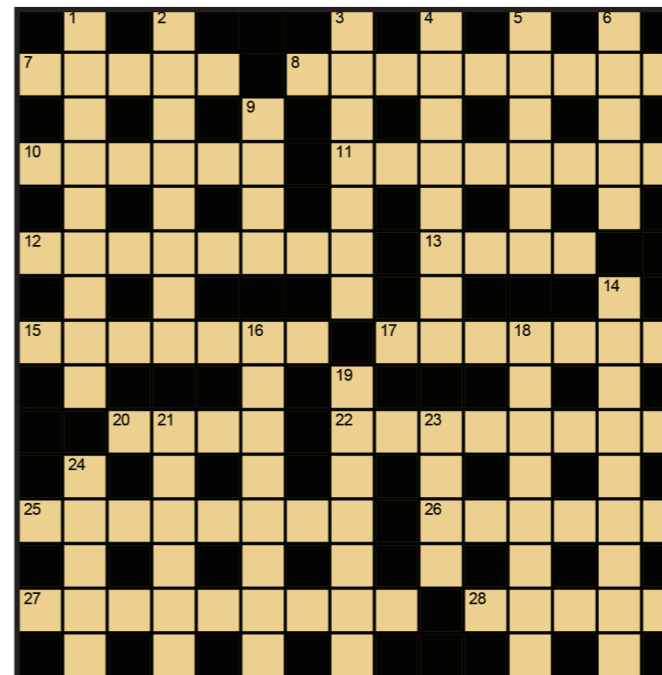


ILLUSTRATION: VECTEZY

Elementary, my dear.  
Member puzzle 09

Courtesy of Aktoro



ARE YOU A MATHS & LOGIC MAESTRO?  
If you have a mind for maths, logical reasoning, cryptic clues and other conundrums, send them to us and we will publish the most difficult in these very pages.  
If you are interested, contact [social@theactuary.com](mailto:social@theactuary.com)

Each across solution can be preceded by the name of one of 13 different chemical elements to make a familiar phrase. For example, 'Damage some spud (4)' leads to 'chip', which can be associated with silicon. You would enter 'chip' in the grid.

Across

- 7 Lady's first made fashion award (5)
- 8 First sign of Friday (9)
- 10 Turn it inside fish - bream was known for it (6)
- 11 See 17
- 12 Party things dance to half the number-crunchers (8)
- 13 Refresh linguist without first taking one out for a single breather (4)
- 15 Treatment of heart problem - pity it isn't there (7)

- 17/11 Bird a hundred dropped to lift a small hammer (7,8)
- 20 Time alone will show there's food (4)
- 22 Reticence should start to produce books (8)
- 25 Grew quickly to embrace Tina Turner initially - then came down with a bump (8)
- 26 Make slight adjustment to 13s (6)
- 27 Enhance breast that is incorporating T-cells (9)
- 28 What a horserace - Pegasus first, the rest aren't to be seen yet (5)

Down

- 1 You said queen breathes right out and leaves (9)
- 2 Revolutionary power cycle alternatively engineered at the start by Radiohead (3,5)
- 3 Programme that's ended without nothing to repeat (7)
- 4 She won't accept anything wrong, like panini filled with lettuce head (8)
- 5 Make minister fix radio before finishing sermon (6)
- 6 Bulb particles that are charged without first starter (5)
- 9 Bravo! Romeo's over the moon

- now there's fizz! (4)

- 14 Queen's excited, if 13, loses her head (9)
- 16 Compounds Spooner heard when an aquarium fish copies the cat (8)
- 18 Dishevelled stray horse left inside (8)
- 19 Discontented behaviour - I'd get Jones (7)
- 21 Perhaps Washington follows George II to discover land (6)
- 23 QC's kind (4)
- 24 Small sort of tent - can't find the opening for her! (5)

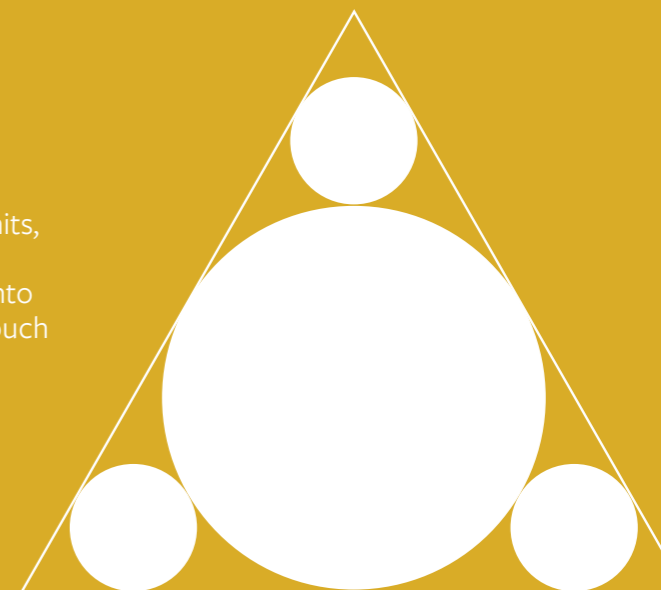
Circular logic  
Member puzzle 10

Courtesy of Dennis Lister, Norwich

A circle is inscribed into an equilateral triangle, with each side of length three units, so that it touches all three sides.

Three small circles are then inscribed into the corners of the triangle so that they touch two sides and the large circle.

What is the total area of the four circles?



Mensa answers: 799: 1,42 penguins, 71 flamingos and 45 monkeys. 800: Leek, okra, kale and bean will be read when the top half is rotated two places anti-clockwise. 801: Personification. Member puzzle 09 answers - Courtesy of Aktoro: Across 7 (Silver) Medal, 8 (Caroon) Footprint, 10 (Lead) Guitar, 12 (Hellum) Balloons, 13 (Iron) Lung, 15 (Oxygen) Therapy, 17/11 (Sulphur) Crested cockatoo, 20 (Barium) Meal, 22 (Gold) Reserves, 25 (Copper) Bottomed, 26 (Neon) Lights, 27 (Lithium) Batteries, 28 (Tin) Place Down. 1 Bequeaths, 2 Wat Tyler, 3 Podcast, 4 Strickler, 5 Ordain, 6 Ormon, 9 Bino, 14 Nefertiti, 16 Polymers, 18 Straggle, 19 Bridget, 21 Estate, 23 Silk, 24 Woman. Member puzzle 10 answer - Courtesy of Dennis Lister: It