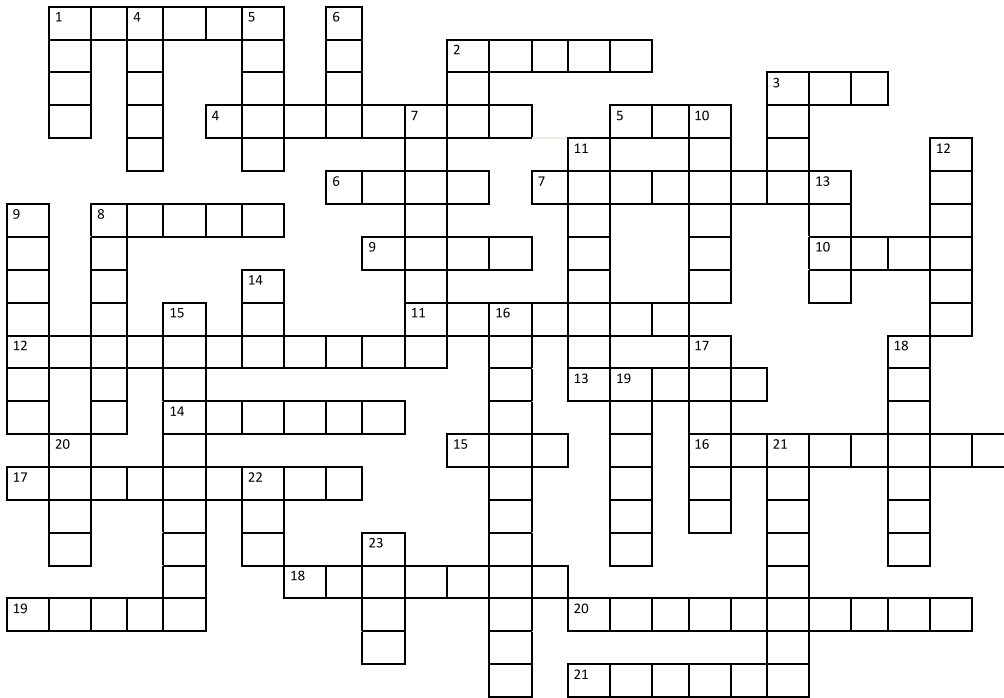


Test your knowledge

Most of the answers can be found in this issue of *Quest*.



Across

- 1 The shape describing most galaxies
- 2 A pressure wave that we hear
- 3 Our galaxy is the Milky ___
- 4 The international study on neuromuscular disease will use this approach
- 5 The hearZA app is this type of hearing test
- 6 An acronym for a free online course
- 7 These birds weigh themselves in exchange for food
- 8 Intellectual disabilities result from ___ damage
- 9 Describes a partial ossicle implant
- 10 The species name for a killer whale
- 11 The study of interactions between organisms and with their environment
- 12 Ancient instruments spun through the air to make sound
- 13 A device on glasses that reads aloud for visually impaired people
- 14 Cortisol is a ___ hormone
- 15 An otorhinolaryngologist is commonly called an ___ specialist
- 16 The Fitzpatrick Institute's research programme on desert birds
- 17 The prosthetic hand developed at UKZN
- 18 A shape made of repeating parts of the same shape
- 19 Lepidoptera are butterflies and ___
- 20 The theme of this issue of *Quest*
- 21 Nuclear fusion converts hydrogen into this element in stars

Down

- 1 Acronym for the largest telescope in the southern hemisphere
- 2 The chemical formula of silicon carbide

- 3 A structure in rivers for measuring water level and flow
- 4 The middle bone, or ossicle, in the middle ear
- 5 The world's largest is used to replicate star conditions
- 6 Relating to wood, as in ___ chemistry
- 7 Forms of a chemical element used in tracer studies
- 8 A system of raised dots for touch-reading by blind people
- 9 The science event inspired by *Speakers' Corner* in Hyde Park
- 10 The fossil remains of *Homo* ___ are being excavated by 'underground astronauts'
- 11 The social media handle of the Spaniard who built his own Lego arm
- 12 A 'smart cane' that helps blind people avoid obstacles via ultrasound
- 13 An experiment at the USA's National Ignition Facility is called a ___
- 14 Acronym for a conservation tool also known as a marine reserve
- 15 Artificial limbs are ___
- 16 The study of the world's seas
- 17 A nut with sunscreen potential
- 18 The late Stephen Hawking had motor ___ disease
- 19 Water that does not seep into the earth but flows away after rain
- 20 The ___ snowflake was the subject of the winning Eskom Expo ISF project
- 21 A metal used for implants and 3D printing
- 22 The ice bucket challenge raised funds for this
- 23 A form of matter that influences galaxy rotation

QUEST MATHS PUZZLE NO. 51

Starting in the bottom left corner and moving either up or right, adding up the numbers along the way, what is the largest sum you can make?

| | | | | |
|---|---|---|---|---|
| 2 | 3 | 5 | 4 | 1 |
| 3 | 2 | 4 | 3 | 4 |
| 5 | 1 | 3 | 5 | 2 |
| 3 | 3 | 2 | 3 | 1 |
| 1 | 4 | 2 | 4 | 4 |

Answer to Maths Puzzle no. 50: 375 bubblegum blocks (70 chocolate cake slices and 55 fudge pieces)

WIN A PRIZE!

Send us your answer (fax, e-mail or snail-mail) together with your name and contact details by 15:00 on 14 February 2020.

THE FIRST CORRECT ENTRY THAT WE OPEN WILL BE THE LUCKY WINNER. WE'LL SEND YOU A COOL 'TRULY SCIENTIFIC' CALCULATOR!

Mark your answer 'Quest Maths Puzzle no. 51' and send it to:
Fax: 0866 710 953
E-mail: livmath@iafrica.com. **Snail-mail:** Quest Maths Puzzle, Living Maths, P.O. Box 195, Bergvliet, 7864, Cape Town, South Africa



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