



LIVING MATHS
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The Living Maths Mathematics Olympiad 2004 Grade: 3



PLEASE NOTE:

- Answer the questions according to the instructions on the answer sheet.
- Choose an answer from the possibilities below each problem.
- The teacher may explain the instructions to the learners.
- You may not use a calculator.
- Read the questions carefully!
- We hope you enjoy it!

NEEM KENNIS:

- Beantwoord die vrae deur die instruksies op die antwoordblad te volg.
- Kies 'n antwoord uit die onderstaande moontlikhede na elke probleem.
- Die onderwyser mag die instruksies aan die leiers verduidelik.
- 'n Sakrekenaar mag nie gebruik word nie.
- Lees die vrae aandagtig!
- Geniet dit!

1. What number must be written in the \square to make the following number sentence true?

Watter getal moet in die \square geskryf word om die getallesin waar te maak?

$$14 + \square = 31$$

- (A) 27 (B) 7 (C) 37 (D) 17 (E) 20

2. What is the next number in the sequence below?

Watter getal is volgende in die patroon?

3; 7; 11; 15; ?

- (A) 16 (B) 17 (C) 18 (D) 19 (E) 20

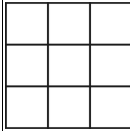
3. If you choose a number and you add 4 and then add 10, you would get an answer of 19. What number did you choose?

As jy 'n getal kies en jy tel 4 by en dan weer 10, is die antwoord 19. Watter getal het jy gekies?

- (A) 19 (B) 8 (C) 5 (D) 7 (E) 12

4. How many squares are in the following picture?

Hoeveel vierkante is in die volgende skets?



- (A) 9 (B) 10 (C) 12 (D) 13 (E) 14



5. Aaron comes from America. When he goes to the bank, they give him R6,00 in exchange for every one dollar (\$1). The bank gave Aaron R60,00. How many dollars did he cash in?

Aaron kom van Amerika. Hy gaan na die bank en hulle veruil R6,00 vir elke dollar (1\$). Die bank gee vir Aaron R60,00. Hoeveel dollars het hy geruil?



- (A) \$10 (B) \$20 (C) \$30 (D) \$40 (E) \$50

6. Terry has 9 cards more than Samuel. If Samuel has 8 cards, how many cards do they both have altogether? Terry het 9 kaarte meer as Samuel. As Samuel 8 kaarte het, hoeveel kaarte het hulle altesaam?

- (A) 17 (B) 25 (C) 9 (D) 20 (E) 8

7. If today is a Wednesday, what day will it be 22 days from today? As dit vandag Woensdag is, watter dag sal dit oor 22 dae wees?

- (A) Monday/Maandag (B) Tuesday/Dinsdag (C) Wednesday/Woensdag (D) Thursday/Donderdag (E) Friday/Vrydag

8. Michelle arranges her coins into a pattern. How many coins will she put down next?

As Michelle haar muntstukke in 'n patroon pak, hoeveel sal sy volgende pak?



- (A) 9 (B) 6 (C) 8 (D) 7 (E) 5

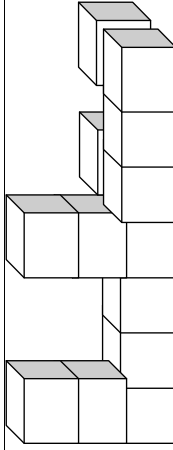
9. How many more minutes will it take for the time on the clock to show half past ten? Hoeveel minute sal dit neem voordat die horlosie half elf wys?



- (A) 10 min (B) 15 min (C) 20 min (D) 25 min (E) 30 min

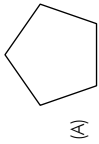
10. How many blocks were used to build this structure?

Hoeveel blokke is gebruik om hierdie struktuur te bou?

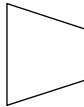


- (A) 15 (B) 13 (C) 16 (D) 20 (E) 11

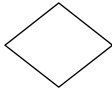
11. Which shape below is the odd one out?
Watter vorm pas nie?



(A)



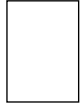
(B)



(C)



(D)



(E)

12. What colour was Napoleon's white horse?
Watter kleur was Napoleon se wit perd?



(A) Black/Swart

(B) Brown/Bruin

(C) Red/Rooi

(D) White/Wit

(E) Blue/Blou

13. Which one of the following would be a possible reading on the scale for Mother?
Watter van die volgende kan 'n moontlike lesing vir Ma wees?



(A) 6 kg

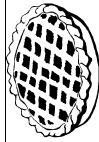
(B) 60 grams

(C) 60 kg

(D) 600kg

(E) 6 grams

14. Mother baked a delicious apple pie. She cuts the cake into 12 equal sized pieces. Father comes home and eats half the pie on his own for dinner! At breakfast time he eats half of the remaining pieces. How many pieces of pie are left?



Ma bak 'n heerlike tert. Sy sny die tert in 12 gelyke dele. Pa kom huis toe en eet die helfte op vir aandete. Vir ontbyt eet hy die helfte op van wat oor is. Hoeveel stukke van die tert is oor?

(A) 12

(B) 6

(C) 5

(D) 9

(E) 3

15. The principal called up 10 learners to receive an award for doing so well in the Living Maths Mathematics Olympiad. Each learner came onto the stage and shook hands with the principal, the vice principal and the maths teacher. How many handshakes took place in total?



Die skoolhoof roep 10 leerders op die verhoog om 'n toekenning te ontvang wat in die Lewende Wiskunde Olimpiade presteer het. Elke leerder wat op die verhoog gekom het, het hand geskud met die skoolhoof, die onderhoof en die wiskunde-onderwyser. Hoeveel handdrukke is gegee vir al die leerders?

(A) 10

(B) 20

(C) 30

(D) 40

(E) 15

16. Brad is typing in a sum on his new calculator. Instead of pushing the X 2 he pushes + 2 by mistake. He has an answer of 10. If Brad had pushed the correct buttons, what should his answer have been?



Brad tik 'n som in op sy nuwe sakrekenaar. In plaas van X 2, druk hy + 2. Die antwoord is 10. As Brad die regte knoppie gedruk het, wat sou die antwoord gewees het?

(A) 22

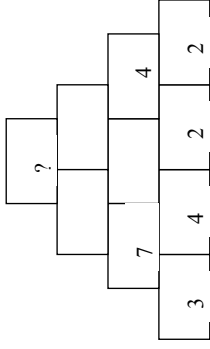
(B) 10

(C) 12

(D) 16

(E) 20

17. In the Addition Pyramid on the right, you can calculate the number in a block by adding the numbers in the two blocks below it. For example, 7 is created by 3 + 4 and 4 is created by 2 + 2. What should the number in the top block be?



In die optelpiramide op regterkant, kan die getalle in die blokke bereken word deur die onderste twee getalle bymekaar te tel. Byvoorbeeld: 7 is verkry deur 3 + 4, en 4 is verkry deur 2 + 2. Wat sal die nommer in die boonste blok wees?

(A) 23

(B) 31

(C) 20

(D) 36

(E) 28

18. Millie is knitting jerseys for young children in hospitals. The jerseys are either red or navy. Millie wants to sew a letter in the front of each jersey. If she knits jerseys with all the possible letters and both colours, how many jerseys does she need to make up?



Millie brei truië vir jong kinders in hospitale. Die truië is rooi of blou. Millie wil 'n letter op die voorkant van elke trui brei. As sy truië met al die moontlike letters in beide kleure wil brei, hoeveel truië moet sy brei?

(A) 26

(B) 52

(C) 13

(D) 48

(E) 24

19. Which number is halfway between 30 and 31?
Watter getal is halfpad tussen 30 en 31?

(A) 30,1

(B) 31

(C) 30,5

(D) 30,2

(E) 15

20. Hungry Hennie buys a hamburger, Coke and ice cream. If he pays for all three items with a R20 note, how much change does he get?

Honger Hennie koop 'n burger, Coke en 'n roomys. As hy vir al drie items met 'n R20-noot betaal. Hoeveel kleingeld het hy gekry?



R8,50

R2,70

R2,25

(A) R13,45

(B) R5,45

(C) R5,55

(D) R6,55

(E) R6,45

Papers written by Steve Sherman and translated by Maryna de Lange