

# The Living Maths Olympiad 2000

## Grade: 4

It's about the stuff in maths and the maths in stuff.

### PLEASE NOTE:

- Answer the questions according to the instructions on the answer sheet.
- You may use a calculator.
- We hope you enjoy it!

### LET OP ASSEMBLIEF:

- Beantwoord die vrae volgens die instruksies op die antwoordblad.
- Jy mag 'n sakrekenaar gebruik.
- Ons hoop jy geniet dit!

### QAPHELA:

- Phendula imibuzo ngokwemigaqo ekwiphepha olinikiweyo
- Ungayisebenzisa i-Calculator
- Siyathemba uyakulonwabela!

1. 4 children share R29 equally. How much money does each child receive?

(A) R8,25

(B) R7,50

(C) R116,00

(D) R33,00

(E) R7,25

1. 4 kinders deel R29 gelykop. Hoeveel geld kry elke kind?

1. IR29 kufuneka ihlulelwe abantwana aba 4 ngokulinganayo. Emnye kufuneka afumane malini ?

2. Which of the following numbers is the biggest?

(A)  $\frac{1}{4}$

(B) 0

(C) 1

(D)  $\frac{1}{500}$

(E)  $\frac{1}{2000}$

2. Watter van die volgende getalle is die grootste?

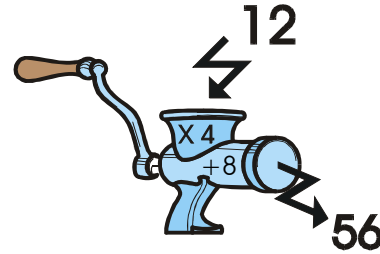
2. Leliphi kula manani alandelayo elilelona likhulu ?



3. If the number 12 is fed into the number machine below, the output (answer) is 56. If the output is 16, what was the input ?

3. As die getal 12 in hierdie getalmasjien ingevoer word, is die uitvoergetal (antwoord) 56. As die uitvoergetal 16 is, wat was die invoertal ?

3. Ukuba u-12 ufakwe kulo-matshini, kuphuma inani elingu-56. Ukuba kuphume u-16 ngubani ebefakwe ekuqaleni ?



(A) 32

(B) 2

(C) 96

(D) 8

(E) 4

4. Which number in place of # will make this number sentence true?

$$15 \div 5 = \# \div 15$$

(A) 5

(B) 15

4. Watter getal in die plek van # sal die getalsin waar maak ?

$$15 \div 5 = \# \div 15$$

(C) 30

(D) 48

4. Leliphi inani endaweni ye #, ekufanele lenze esi sivakalisi sibe yinyani ?

$$15 \div 5 = \# \div 15$$

None of these

(E) Nie een hiervan nie

Asikho kwezi

5. If 5 sweets cost 65c altogether, how much will 9 sweets cost ?

(A) R5,85

(B) R29,25

5. As 5 lekkers 65 sent kos, wat sal 9 lekkers kos?

(C) R1,17

(D) R1,32

5. Ukuba ilekese ezi 5 zixabisa ama 65c xa zizonke, ilekese ezili 9 ziyakuxabisa malini ?

(E) R36,11

6. If you were travelling to America, you would need to buy dollars at a rate of R7 for one dollar. If you want 70 dollars, how much would it cost you in rands ?

(A) R10

(B) R70

6. As jy Amerika toe sou gaan sal jy R7 vir elke dollar betaal . As jy 70 Dollar wil koop hoeveel rand sal dit kos?

(C) R49

(D) R490

6. Ukuba wawusiya eMerika, kwakuyaku funeka ukuba uthenge iidola nge R7 idola nganye. Ukuba ufuna iidola ezingama 70, ziyaku kubiza malini ngokwexabiso lee ranti ?

(E) R140

7. If today is a Monday, what day will it be 64 days from today ?

(A) Tuesday  
Dinsdag  
U Lwe Sibini

(B) Wednesday  
Woensdag  
U Lwe Sitathu

(C) Thursday  
Donderdag  
U Lwe Sine

(D) Friday  
Vrydag  
U Lwe Sihlanu

(E) Saturday  
Saterdag  
Umgqibelo

8. A train travels at a rate of 1km in 1minute and 20 seconds. If the train travels at this rate, how far will it travel in one hour ?

(A) 60km

(B) 45km

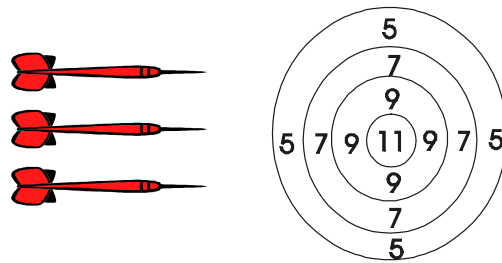
(C) 30km

(D) 29km

(E) 50km

9. On this dartboard you can score 3, 5, 7, 9 or 11 with each dart. A boy hits the board with three darts. Which of the following total scores is impossible to obtain ?

9. Op hierdie veerpyltjie-teiken kan jy tellings van 3, 5, 7, 9 of 11 met elke pyltjie behaal. 'n Seun tref die teiken met 3 pyltjies. Watter van hierdie totale tellings is onmoontlik?



(A) 21

(B) 33

(C) 25

(D) 22

(E) 23

10. When Anna was 4, Bert was 7. When Anna was 7, Carla was 5. How old was Bert when Carla was 7?

(A) 3

(B) 6

(C) 8

(D) 10

(E) 12

7. As vandag Maandag is, watter dag sal dit oor 64 dae wees?

7. Ukuba namhlanje kungo Lwe Sibini, inyakuba lolphi usuku lweveki emva kwentsuku ezili 64 ukusukela namhlanje ?

8. Uloliwe uhamba ngesantya esiyi 1 km ngomzuzu omnye nemizuzwana engama 20. Ukuba kengoko uloliwe uhamba ngesi santya, uyakube ehambe umgama ongakanani emva kweyure enye ?

9. Umntu angabetha u 3, 5, 7, 9 okanye u 11 kwiqonga lwedathi eliboniswe ngasezantsi. Inkwenkwana ithi igibisele kweli qonga ngeedathi ezi 3. Sesiphi isikoro esingenakufumaneka kwezi zilandelayo ?

10. Toe Anna 4 was, was Bert 7. Toe Anna 7 was, was Carla 5. Hoe oud was Bert toe Carla 7 was ?

10. Xa u Anna wayeneminyaka emi 4 ubudala, u Bert yena waneminyaka esi 7 ubudala. Xa uAnna wayeneminyaka esi 7, u Carla yena wayenemi 5. Wayemdala kangakani kangoko u Bert xa u Carla wayeminyaka esi 7 ?



14. If  $2^1 = 2$   
 $2^2 = 2 \times 2 = 4$   
 $2^3 = 2 \times 2 \times 2 = 8$

Calculate:  $3^3$

- (A) 3 (B) 9

14. As  $2^1 = 2$   
 $2^2 = 2 \times 2 = 4$   
 $2^3 = 2 \times 2 \times 2 = 8$

Bepaal:  $3^3$

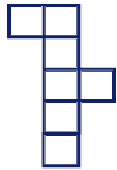
- (C) 12 (D) 27

14. Ukuba  $2^1 = 2$   
 $2^2 = 2 \times 2 = 4$   
 $2^3 = 2 \times 2 \times 2 = 8$

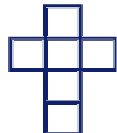
Ngubani u :  $3^3$

- (E) 30

15. Which pattern could be cut out and folded along the lines to form a cube?



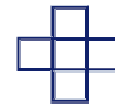
(A) **A**



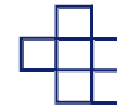
(B) **B**



(C) **C**



(D) **D**



(E) **E**

15. Watter figuur kan uitgesny en op die lyne gevou om 'n kubus te vorm ?

15. Ngowuphi kulemizobo onokuthi xa usongiwe wasikwa wenze kuphume ityhubu (ibhokisi enamacala ama thandathu) ?

16. Find the next number in the series:  
 7; 9;12;16; 21; ----

- (A) 23 (B) 24

16. Bepaal die volgende getal in die ry:  
 7; 9;12;16; 21; ----

- (C) 25 (D) 26

16. Leliphi inani elilandelayo kolu luhlu ?  
 7; 9;12;16; 21; ----

- (E) 27

17. Which number is halfway between 37 and 51 ?

- (A) 943.5 (B) 44

17. Watter getal is halfpad tussen 37 en 51 ?

- (C) 48 (D) 47

17. Leliphi inani elilelona liphakathi xa kubalwa ukusukela kuma 37 ukuya kuma 51 ?

- (E) 42

18. If \* is an even number, which even number comes next?

- (A) \* + 1 (B) \* - 1

18. As \* 'n ewe getal is, wat is die volgende ewe getal?

- (C) \* + 2 (D) \* - 2

18. Ukuba I-\* linani elohluleka ngesibini lingabi nantsalela, leliphi kengoko inani elilandela emva kweli ?

- (E) \*

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|--|--|--|--------|--------|
| 19. What is the smallest number which has a remainder of 1 when divided by 2, 3 or 4 but has no remainder when divided by 7? | 19. Wat is die kleinste getal met 'n res van 1 wanneer dit deur 2,3 of 4 gedeel word maar het geen res wanneer dit deur 7 gedeel word? | 19. Leliphi elona nani lincinane elinentsalela esi 1 xa lithe lohlulwa ngesi 2, nesi 3 kunye ne 4 kodwa lingabi nantsalela xa lohlulwe ngesi 7 ? |        |        |
| (A) 14   | (B) 5  | (C) 17   | (D) 49 | (E) 63 |
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- |  |  |   |        |        |
|--|--|---|--------|--------|
| 20. Father used 40 litres of petrol to travel the distance of 500 km. How many litres of petrol will he use to travel the 300 km ? | 20. As pa 40 liter petrol gebruik om 500km te reis hoeveel liter petrol sal hy gebruik om 300km te reis? | 20. Utata wasebenzisa ama 40 elitha zepetroli. Ukuqhuba umgama wama 500 km. Zingaphi iilitha zepetroli anokuzisebenzisa ukuqhuba umgama wama 300 km ? |        |        |
| (A) 24   | (B) 26   | (C) 30  | (D) 32 | (E) 36 |
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- |   |   |   |        |        |
|---|---|---|--------|--------|
| Bonus: A party of 18 people went to a restaurant. They each chose a R21 meal, but four of them forgot to bring money. In order to pay the bill, how much extra did the others have to pay ? | Bonus: 'n Groep van 18 mense het na 'n restaurant gegaan. Elkeen het 'n ete van R21 gekies, maar vier het vergeet om geld te bring. Ten einde die rekening te behaal, hoeveel moes die ander elk ekstra betaal? | IBhonasi: I Pati yabantu abali 18 yenzelwa e-restyu (indawo ekutyiwa kuyo ngabantu bonke). Bonke bathenga isidlo esixabisa ama R21 kodwa isine kubo salibala ukuphatha imali. Ukuze bakwazi le kuhlawwa ngokupheleleyo ingaba yimalini eyongezelelweyo ekwakufuneka emnye kwabanye eyihlawule ? |        |        |
| (A) R2  | (B) R3  | (C) R4  | (D) R5 | (E) R6 |
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