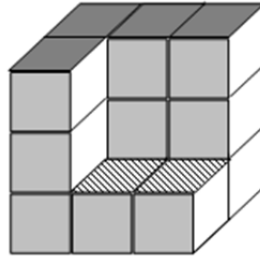




6. Kinjal builds this figure with blocks. Each block is the same size. How many blocks does she use?



6. Kinjal bou hierdie figuur met blokke.. Elke blok is ewe groot. Hoeveel blokke gebruik sy?

- (A) 10                      (B) 12                      (C) 14                      (D) 16                      (E) 18

7. Which figure is next in this pattern?

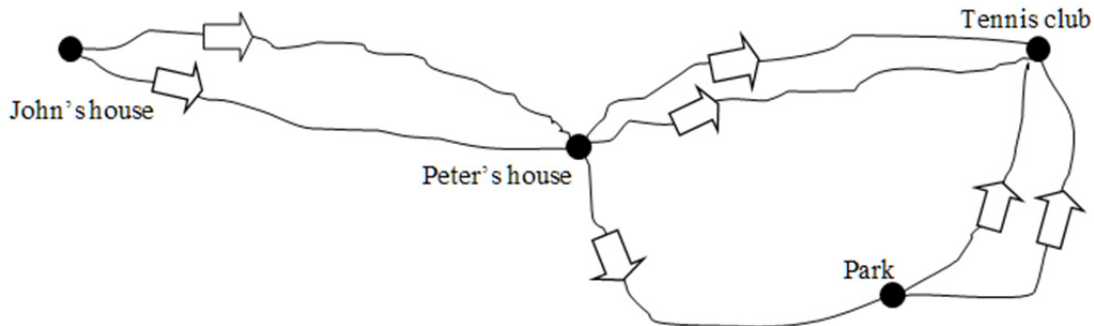


7. Watter figuur kom volgende in hierdie patroon?

- (A)                      (B)                      (C)                      (D)                      (E)

8. Using the routes shown below, how many different ways can John travel from his house to the tennis club?

8. Hoeveel verskille roetes kan John gebruik om van sy huis na die tennisklub te reis deur die getoonde roetes te gebruik?



- (A) 7                      (B) 8                      (C) 9                      (D) 10                      (E) 11

9. In this is magic square, the numbers in each row, column and diagonal add up to 33. What number is represented by the question mark?

9. In hierdie towervierkant is die totaal van die getalle in elke ry, kolom en hoeklyn 33. Watter getal kom in die plek van die vraagteken?

	3	20
21		
	?	12

- (A) 11                      (B) 10                      (C) 3                      (D) 19                      (E) 2

10. Lauri has cats and birds as pets. The pets have a total of 10 heads and 28 legs. How many cats does she have?

- (A) 2                      (B) 3                      (C) 4

10. Lauri het katte en voëls as troeteldiere. Die troeteldiere het 'n totaal van 10 koppe en 28 bene. Hoeveel katte het sy?

- (D) 5                      (E) 6

11. What is the smallest number that leaves a remainder of 1 when divided by 3 or 6 or 8?

- (A) 17                      (B) 13                      (C) 18

11. Wat is die kleinste getal wat 'n res van 1 laat as dit gedeel word deur 3 of 6 of 8?

- (D) 25                      (E) 49

12. This spinner shows different numbers. What is the minimum number of spins needed in order to get a sum of exactly 100?  
(e.g. 4 spins could give a sum of  $37 + 5 + 5 + 23 = 70$ )



- (A) 2                      (B) 3                      (C) 4                      (D) 5                      (E) 6

12. Hierdie spinwiel toon verskillende getalle. Wat is die minimum getal draaie nodig om 'n som van presies 100 te kry?  
(bv. 4 draaie kan 'n som van  $37 + 5 + 5 + 23 = 70$  gee)

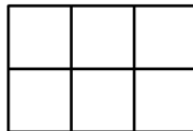
13. Carla stops reading her book and look at the page numbers at the bottom of both pages. If the sum of the page numbers is 33, what is the page number on the left?

- (A) 32                      (B) 17                      (C) 18

13. Carla kyk na die bladsynommers onder aan albei bladsye van haar boek. As die som van die bladsynommers 33 is, wat die bladsynommer aan die linkerkant?

- (D) 33                      (E) 16

14. The figure below is made of small squares. How many squares of all sizes are in this figure?



- (A) 6                      (B) 7                      (C) 9                      (D) 8                      (E) 10

14. Die figuur hieronder bestaan uit klein vierkante. Hoeveel vierkante van alle groottes is daar in hierdie figuur?

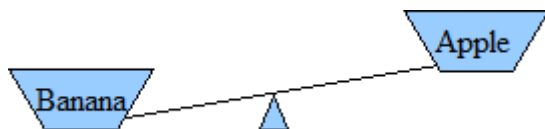
15. Who am I? I am a three digit number. The sum of my digits is 7. The product of my digits is 8. My hundreds digit is half of my units digit.

- (A) 142                      (B) 124                      (C) 421

15. Wie is ek? Ek is 'n drie-syfergetal. Die som van my syfers is 7. Die produk van my syfers is 8. My honderde syfer is die helfte van my ene syfer.

- (D) 412                      (E) 241

16. The diagrams represent "fruits" on balance scales.



16. Die diagramme toon "vrugte" op balans skale.



Which statement is correct?

- (A) Banana is the heaviest.  
(B) Plum is the heaviest  
(C) Banana is lighter Plum  
(D) Plum is heavier than Apple  
(E) Banana is the lightest

Watter bewering is korrek?

- (A) Banana is die swaarste.  
(B) Plum is is die swaarste  
(C) Banana is ligter as Plum  
(D) Plum is swaarder as Apple  
(E) Banana is die ligste

17. Siphso has 30 marbles. He packs them into different size boxes.

- Box A can only hold 1 marble
- Box B can only hold 2 marbles
- Box C can only hold 4 marbles
- Box D can only hold 8 marbles
- Box E can only hold 16 marbles

What is the minimum number of full boxes that he can use to pack all 30 marbles?

- (A) 1                      (B) 2                      (C) 3

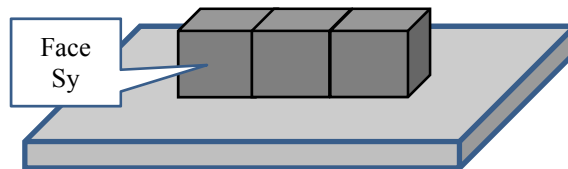
17. Siphso het 30 albasters. He pak hulle in verskillende groottes bokse.

- Boks A kan slegs 1 albaster hou
- Boks B kan slegs 2 albasters hou
- Boks C kan slegs 4 albasters hou
- Boks D kan slegs 8 albasters hou
- Boks E kan slegs 16 albasters hou

What is the minimum getal bokse wat hy kan gebruik om al 30 albasters te pak?

- (D) 4                      (E) 5

18. Look at the three cubes below. If one cube is packed on a table, then 5 faces can be seen. If three cubes are packed in a row on a table as below, 11 faces can be seen. How many faces can be seen if 15 cubes are packed in the same way?



- (A) 7                      (B) 30                      (C) 31                      (D) 47                      (E)

18. Kyk na die drie kubusse hieronder. As een kubus op 'n tafel gepak word, kan ons 5 van die sye (vlakke) sien. As drie kubusse in 'n ry soos hieronder op 'n tafel gepak word, kan ons 11 sye sien. Hoeveel sye kan ons sien as 15 kubusse op dieselfde manier gepak word?

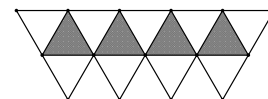
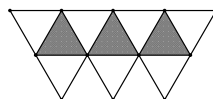
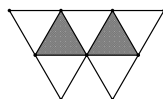
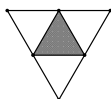
19. Sam is in a long queue. He realises that there are double the number of people behind him, as compared to people in front of him. If he is number 16 in the queue, how many people are in the queue?

- (A) 46                      (B) 52                      (C) 78

19. Sam staan in 'n lang tou mense. Hy besef dat daar dubbel soveel mense agter hom in die tou is as wat voor hom is. As hy nommer 16 in die tou is, hoeveel mense staan in die tou?

- (D) 40                      (E) 45

20. Vusi makes a pattern of black and white triangles as below. If such a pattern has 31 white triangles, how many black triangles does it have?



- (A) 15                      (B) 62                      (C) 12                      (D) 10                      (E) 15

20. Vusi is maak 'n patroon met swart en wit driehoeke soos hieronder. As so 'n patroon 31 wit driehoeke het, hoeveel swart driehoeke het dit?