

Jet SA Mathematics Challenge Jet SA Wiskunde-uitdaging

GRADE 4 FIRST ROUND GRAAD 4 EERSTE RONDE

AUGUST 2012 AUGUSTUS 2012

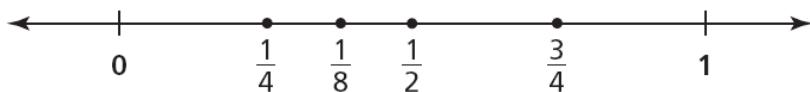
NOTE:

- Answer the questions according to the instructions on the answer sheet.
- You may use a calculator.
- The questions test insight. Complex calculations will therefore not be necessary.
- We hope you enjoy it!

LET OP:

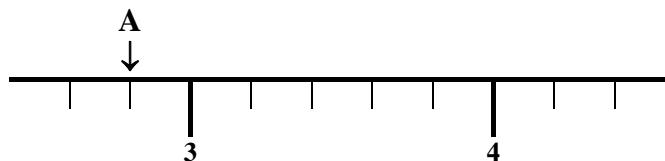
- Beantwoord die vrae volgens die instruksies op die antwoordblad.
- Jy mag 'n sakrekenaar gebruik.
- Die vrae toets insig. Omslagtige berekeninge is dus onnodig en tydrowend.
- Ons hoop jy geniet dit!

1. Which fraction on the number line below is in the *wrong* place?



- (A) $\frac{1}{4}$ (B) $\frac{1}{8}$ (C) $\frac{1}{2}$ (D) $\frac{3}{4}$ (E) None of these
Nie een hiervan nie

2. What is the number indicated by A on the ruler?



- (A) 2,9 (B) 2,8 (C) 2,95 (D) 2,6 (E) 2

3. About how long is this string?



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

4. A movie on television is 2 hours 55 minutes long and ends at 16:45. At what time did it start?

- (A) 13:40 (B) 14:10 (C) 13:50

4. 'n Film op televisie is 2 uur 55 minute lank en eindig om 16:45. Hoe laat het die film begin?

- (D) 13:10 (E) 14:25

5. A watch gains 30 seconds every six hours.
How many minutes will it gain in a week?

(A) 10

(B) 2

(C) 7

5. 'n Horlosie wen 30 sekondes elke ses uur.
Hoeveel minute sal dit in 'n week wen?

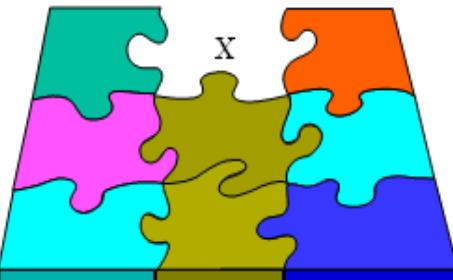


(D) 14

(E) 21

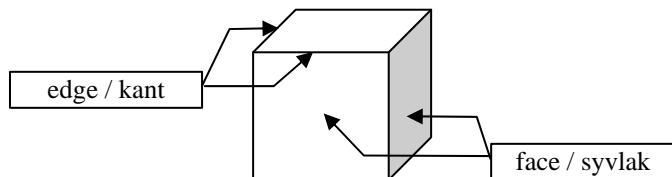
6. Which puzzle piece fits into the opening X?

6. Watter stuk pas in die legkaart in spasie X?



7. This sketch shows a cube with one edge marked. How many edges does the cube have all together?

7. Hierdie skets wys 'n kubus met een kant gemerk.
Hoeveel kante het die kubus altesam?



(A) 8

(B) 12

(C) 6

(D) 24

(E) 9

8. In question 7: How many faces does the cube have all together?

8. In vraag 7: Hoeveel syvlakke het die kubus altesam?

(A) 8

(B) 12

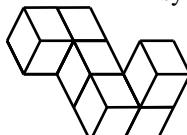
(C) 6

(D) 24

(E) 9

9. This object is made by gluing together six wooden cubes. If you now paint the object, how many faces must you paint?

9. Hierdie voorwerp word gemaak deur ses houtblokkies aan mekaar te lym. As jy nou die voorwerp verf, hoeveel syvlakke moet jy verf?



(A) 30

(B) 27

(C) 26

(D) 25

(E) 24

10. What number in the place of \square makes this sentence true?

10. Watter getal in die plek van \square maak hierdie sin waar?

$$2000 + \square + 30 + 9 = 2739$$

$$2000 + \square + 30 + 9 = 2739$$

(A) 7000

(B) 700

(C) 70

(D) 7

(E) 0,7

11. A number and a half of that number when added together is equal to 96. What is this number?

11. As 'n getal en helfte van die getal opgetel word, is die antwoord 96. Wat is hierdie getal?

(A) 16

(B) 32

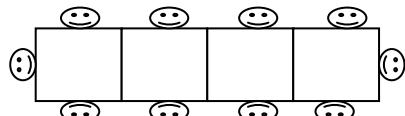
(C) 48

(D) 64

(E) 72

12. 826×243 is more than 824×243 . How much more?
 (A) 2 (B) 243 (C) 824 (D) 486 (E) None of these
 Nie een hiervan nie
13. Pete adds three different two-digit numbers (e.g. 58). What is the highest possible total?
 (A) 294 (B) 297 (C) 267 (D) 579 (E) None of these
 Nie een hiervan nie
14. A carpet is thrown over a tiled floor as shown below. How many tiles were used to tile the floor?
-
- (A) 28 (B) 190 (C) 90 (D) 200 (E) None of these
 Nie een hiervan nie
15. The 21st of a month is a Monday. On what day of the week was the 1st of that month?
 (A) Monday Maandag (B) Tuesday Dinsdag (C) Wednesday Woensdag (D) Sunday Sondag (E) Friday Vrydag
16. In this number wall you add the two numbers next to each other and write the sum in the brick directly above the two numbers, e.g. $10 + 5 = 15$. What number will be written in X?
-
- (A) 70 (B) 68 (C) 72 (D) 78 (E) 80
17. Bella uses $\frac{3}{4}$ of a metre of material to make a skirt. If she has 5 m of material, how many skirts can she make?
 (A) 7 (B) 6 (C) $6\frac{2}{3}$ (D) $3\frac{3}{4}$ (E) None of these
 Nie een hiervan nie
18. The price of a shirt and a tie together is R276. The price of the shirt is three times as much as the price of the tie. What is the price of the shirt?
 (A) R69 (B) R138 (C) R207 (D) R92 (E) R161
19. How many triangles are there all together in this figure?
 (A) 9 (B) 6 (C) 7 (D) 8 (E) Not one of these
 Nie een hiervan nie

20. You need seats for 58 people at your party. You make one long table by joining a number of small tables. Each small table can seat two persons, plus one at each end of the long table, e.g. the 4 small tables below can seat 10 people. How many small tables do you need?



- (A) 28 (B) 29 (C) 30 (D) 32 (E) 34

21. Arnold drove 10 km east, then 5 km north, then 3 km east, then 11 km south, then 13 km west. How far is he now from his starting place?

- (A) 11 km (B) 6 km (C) 3 km

21. Arnold reis 10 km oos, toe 5 km noord, toe 3 km oos, toe 11 km suid en daarna 13 km wes. Hoe ver is hy nou van waar hy begin het?

- (D) 5 km (E) 10 km

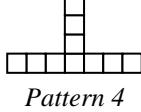
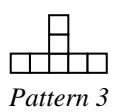
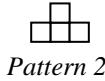
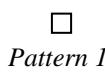
22. Which fraction is between $\frac{1}{5}$ and $\frac{1}{4}$?

- (A) $\frac{1}{3}$ (B) $\frac{9}{40}$ (C) $\frac{3}{20}$

22. Watter breuk is tussen $\frac{1}{5}$ en $\frac{1}{4}$?

- (D) $\frac{1}{6}$ (E) Not one of these
Nie een hiervan nie

23. If the pattern below is continued, how many squares will Pattern 100 have?



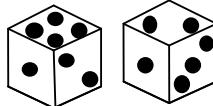
- (A) 301 (B) 302 (C) 300

- (D) 298 (E) 299

24. If you roll two dice and add the two top numbers, how many different answers are possible?

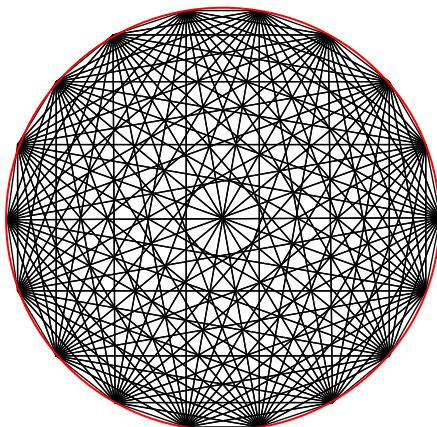
- (A) 10 (B) 11 (C) 12 (D) 21 (E) 36

24. As jy twee dobbelstene rol en jy tel die twee boonste getalle op, hoeveel verskillende antwoorde is moontlik?



25. In this figure there are 18 points on the circle, and every point is connected to every other point on the circle. How many connecting lines are there all together?

25. In die figuur is daar 18 punte op die sirkel, en elke punt is verbind met elke ander punt op die sirkel. Hoeveel konnekerende lyne is daar altesaam?



- (A) 153 (B) 324 (C) 162 (D) 306 (E) 289