

Mathematics Challenge

GRADE 7 FINAL ROUND

13 OCTOBER 2008

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!

Wiskunde-uitdaging

GRAAD 7 FINALE RONDE

13 OKTOBER 2008

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. This figure consists of three rectangles, each measuring 3 cm by 1 cm. What is the perimeter of the figure?



- (A) 16 cm (B) 18 cm (C) 24 cm (D) 20 cm (E) 21 cm

2. The figure is a combination of four semi-circles, each with a radius of 3 cm. What is the area of the figure?



- (A) 24 cm^2 (B) 9 cm^2 (C) 36 cm^2 (D) 27 cm^2 (E) None of these
Nie een hiervan nie

3. The average mass of 3 boys is 75 kg. The average mass of 6 girls is 66 kg. What is the average mass of the 9 children together?

- (A) 70,5 kg (B) 68 kg (C) 70 kg (D) 69 kg (E) 69,5 kg

4. What is the value of a in the table?

1	2	3	4	...	a
4	6	8	10	...	64

- (A) 31 (B) 16 (C) 5 (D) 57 (E) 34

5. An article costs R36,15. This price includes Value Added Tax (VAT) of 14 %. What does the article cost without VAT?

- (A) R31,08 (B) R31,09 (C) R31,72 (D) R31,71 (E) R31,67



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George Lenchner



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