National Foundation Phase Maths Olympiad - Grade one - final round- 2007^{\ast}

The Association for Mathematics Education of South Africa - Kwa-Zulu Natal

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Abstract

Maths olympiad questions for grade one

1 INSTITUTE FOR ADVANCEMENT OF MATHEMATICS AND SCIENCE (IAMS) NATIONAL FOUNDATION PHASE MATHEMATICS OLYMPIAD



Figure 1

2 GRADE ONE – FINAL ROUND PAPER: 2007 QUESTION BOOKLET

DURATION: 1 HOUR 15 MINUTES

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MARKS: 20		
NAME OF LEARNER:	 	
NAME OF SCHOOL:	 	

3 INSTRUCTIONS TO LEARNERS:

- 1. You are expected to answer 15 questions.
 - 2. Use the answer booklet for your answers.
 - 3. Use the space provided for your working.
 - 4. You are not allowed to use the calculator.
 - 5. Read the question carefully before answering. Don't rush.
 - 6. Your teacher will read the question to you.
 - 7. First 10 questions -1 mark each.
 - 8. Questions 11-20: 2 marks each.

4 Test Questions:

4.1 Exercise 1

How many circles are there in this arrangement?



Figure 2

4.2 Exercise 2

Which number is 2 less than 71? 73; 69; 86

4.3 Exercise 3

Write down the number which is 9 more than 38.

4.4 Exercise 4

Give the value of Δ in this addition problem:



Figure 3

4.5 Exercise 5

Give the next number in this pattern. 13; 18; 23; 28;.....

4.6 Exercise 6

Find the value of Δ :

$$48 = \Delta + \Delta + \Delta \tag{1}$$

4.7 Exercise 7

Nellie counted in 5's as follows:-5; 10; 15; 20; 25; . . . Write down the units digit of the 20th number.

4.8 Exercise 8

How many blocks are there in this stack?





4.9 Exercise 9

5 cans energy drinks cost R16. How many cans energy drinks could you get for R48?

4.10 Exercise 10

At a superstore you could get 2 CD's free for every 5 CD's bought. Jerrico received 10 free CD's. How many CD's did Jerrico pay for?

4.11 Exercise 11



3 matchsticks are used to make 1 triangle. 7 matchsticks are used to make 3 triangles. 11 matchsticks are used to make 5 triangles. How many matchsticks are used to make the 11 triangles?

4.12 Exercise 12

When Cindy added two numbers the answer was 30. When she double one number and added this to the other number the answer was 42. Write down the larger number.

4.13 Exercise 13

When Pretty counted her dolls in 2's she had A left. When she counted her dolls in 3's she had none left. What is the smallest number of dolls Pretty counted?

4.14 Exercise 14

Tina was given 5 less health sweets than Sipho. Dineo was given 5 more health sweets than Sipho. All three had 42 health sweets. How many health sweets did Dineo have ?

4.15 Exercise 15

Three red beads are placed between every two blue beads. There are 16 blue beads. After looking at the arrangement below work out the number of red beads.

 $B\ R\ R\ R\ B\ R\ R\ R\ B\ R\ R\ B\ .\ .$