



# Erica Girls' Primary School

## Maths Paper 1

Grade: 6  
Examiner: Miss Matthys

Total: 50 Marks  
Date: June 2016  
Time: 1.5Hours

### Instructions:

- Read all the questions carefully.
- Answer all the questions neatly in pencil.
- Skip a line between each answer.
- Show ALL of your working out.

1. Study the figures of some of the cities and towns in South Africa and then answer the questions.

Limpopo	90 211
North West	78 663
Northern Cape	478 675
Free State	123 669
Kwazulu Natal	252 967
Western Cape	94 263
Eastern Cape	967 677
Mpumalanga	84 349
Gauteng	511 655

- a. Write down the population figures in descending order. (2)
- b. Write the population figures of Kwazulu Natal and the Eastern Cape in expanded notation. (2)
- c. Add 1 million to the population figures of Limpopo and the Free State. (2)
- d. Write in words the population figure for the Gauteng province. (1)
- e. Are all these populations figures in the table above, an example of even or odd numbers? (1)

[8]

2. Study the following set of numbers below.

2; 43; 45; 30; 25; 8; 27; 6

Choose the following from these numbers:

- a. This is an even prime number. (1)
- b. This number has 3 and 15 as factors. (1)

- c. 2 prime numbers. (2)
- d. The sum of 2 numbers from the list equals to a number also found in the list. What is this number? (1)
- e. 2 cubed equals this number. (1)
- f. This number is the product of 5 squared. (1)

[7]

**3. Fill in > ; < or =**

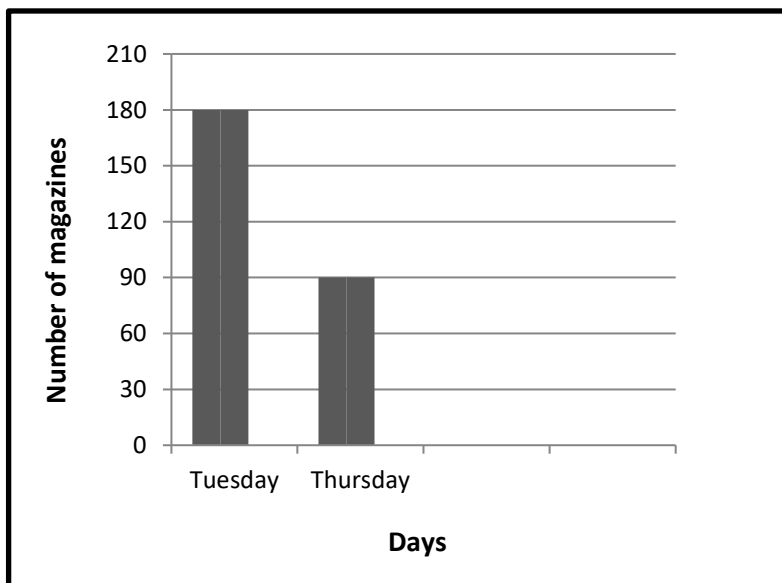
a.  $\frac{2}{4} * \frac{3}{5}$  (1)

b.  $\frac{5}{9} * \frac{2}{3}$  (1)

c.  $\frac{9}{25} * \frac{75}{100}$  (1)

[3]

**4. Blake drew this graph to show how many magazines were collected by his school on two different days.**

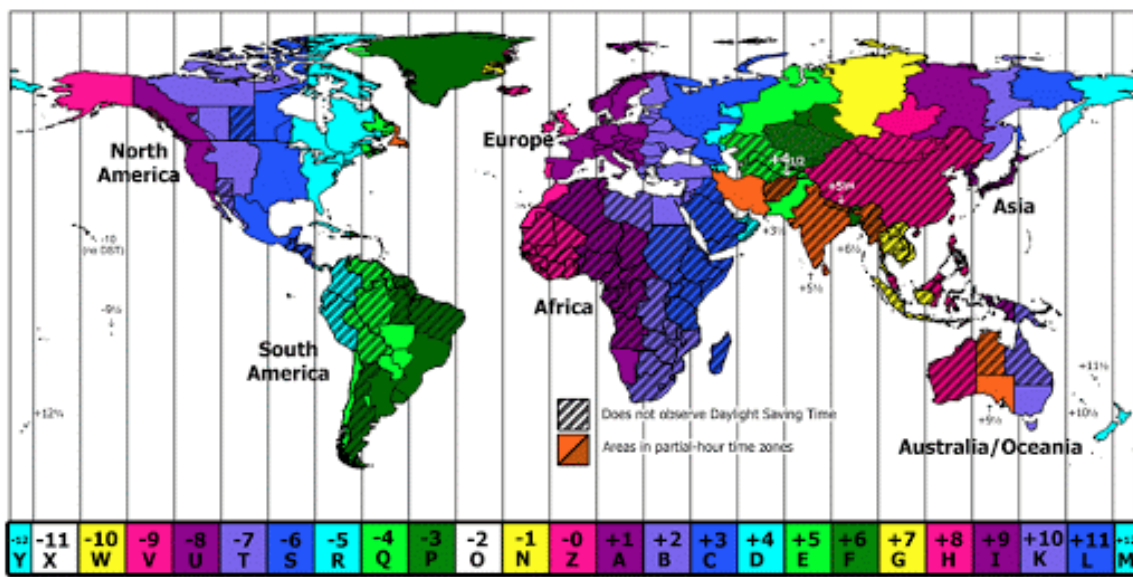


**Blake thinks that they collected three times as many magazines on Tuesday than on Thursday.**

- a. Is what Blake says correct? Give a reason for your answer. (2)
- b. Draw a new graph showing the collection of three times as many magazines on Tuesday than on Thursday. (5)

[7]

5. Below is a map of the world, showing the 24 time zones.



- If it is 10am in Brazil, what is the time in Perth? (1)
  - What is the time in Cape Town? (1)
  - Choose the correct word in brackets and rewrite it on your answer paper:  
" As you move west, you are moving (behind / ahead) of time." (1)
- [3]

6. Calculate the following:

- $8 \times 3 + 12 \times 7$  (1)
  - $\frac{2}{5}$  of  $85 \div 2$  (1)
  - $48 \div 6 \times 3$  (1)
- [3]

7. Convert to improper fractions:

- $8 \frac{3}{4}$  (1)
- $17 \frac{2}{3}$  (1)

[2]

8. Look at the table and answer the questions that follow.

<u>South Africa's top ten films</u>	
Name of film	Money earned by film
The Jungle Book	R108 356 926
Mother's Day	R56 444 923
Captain America: Civil War	R109 609 205
Batman vs. Superman	R445 733 400
Ghostbusters	R77 693 241

- Round off the earnings of The Jungle Book and Ghostbusters to the nearest 100. (2)
- Round off the earnings of Captain America: Civil War and Mother's Day to the nearest 10 000. (2)
- Find the difference in earnings between Batman vs. Superman and The Jungle Book. (1)
- Arrange the movies in ascending order according to their earnings. Write down the names of the movies only. (1)
- What were the total earnings of all of the above movies? (1)

[7]

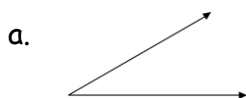
9. Study the following number:

8 765 238

- Find the difference between the values of the two underlined digits. (2)
- Find the quotient of the values of the two underlined digits. (2)

[4]

10. Identify and name each angle



(3)

[3]

11. Change these improper fractions to mixed numbers:

a.  $\frac{27}{4}$

(1)

b.  $\frac{102}{11}$

(1)

[2]

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Total: **50**