



# **GAUTENG PROVINCE**

Department: Education  
REPUBLIC OF SOUTH AFRICA

## **EKURHULENI NORTH DISTRICT**

### **MATHEMATICS**

### **NOVEMBER EXAMINATION**

<b>GRADE:</b>	<b>5</b>
<b>DATE:</b>	<b>18 November 2019</b>
<b>NAME OF SCHOOL:</b>	
<b>NAME OF THE LEARNER:</b>	
<b>MARKS:</b>	<b>65</b>
<b>DURATION:</b>	<b>90 MINUTES</b>

#### **INSTRUCTIONS:**

- Read all the questions carefully
- Question 1 consists of 10 multiple choice questions. Circle the letter next to the answer.
- Answer Question 2 – 10 in the space provided.
- All calculations must be show on the question paper and not on a separate paper.
- Write neatly and legibly
- The use of a calculator is not allowed.
- This paper consists of 11 pages

<b>Question</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>
<b>Maximum mark</b>	<b>11</b>	<b>13</b>	<b>9</b>	<b>5</b>	<b>6</b>	<b>6</b>	<b>7</b>	<b>8</b>
<b>Learner's mark</b>								
<b>Moderator's mark</b>								

### Question 1 multiple choice

Choose the correct answer:

- 1.1) Select the correct answer for the following:  $400\ 000 + 30 + 20\ 000 + 6 + 8000 + 500$  (1)  
A. 435 268      B. 438 536      C. 428 536      D. 425 836

- 1.2) What is the correct value of the missing number? (1)

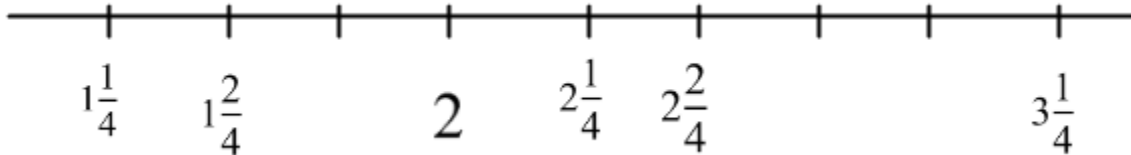


- A. 201 484      B. 201 492      C. 201 488      D. 201 490

- 1.3) **3 840** rounded off to the nearest 1 000 (1)

- A. 3 840  
B. 3 000  
C. 3 800  
D. 4 000

- 1.4) Work out the missing fractions on the number line below (1)



- A.  $1\frac{4}{4}$ ;  $2\frac{3}{4}$ ;  $2\frac{4}{4}$   
B.  $1\frac{3}{4}$ ;  $2\frac{3}{4}$ ; 3  
C.  $1\frac{3}{4}$ ;  $2\frac{3}{4}$ ;  $2\frac{5}{4}$   
D.  $1\frac{1}{4}$ ;  $2\frac{1}{4}$ ;  $3\frac{1}{4}$

- 1.5) What is the value of the underlined digit 6 214? (1)

- A. 60  
B. 6  
C. 6 000  
D. 600

- 1.6) Which number is NOT a multiple of 8? (1)

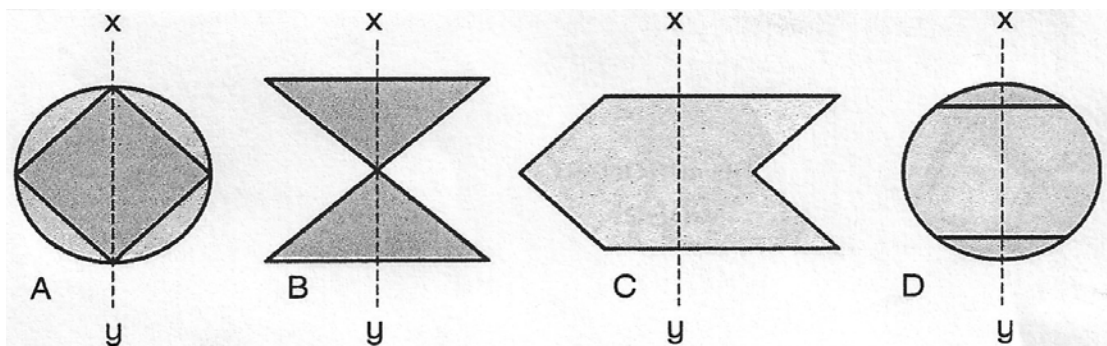
- A. 16  
B. 32  
C. 28  
D. 48

1.7)  $80 - 15 \times 2$  is \_\_\_\_\_ (1)  
 A. 50  
 B. 130  
 C. 65

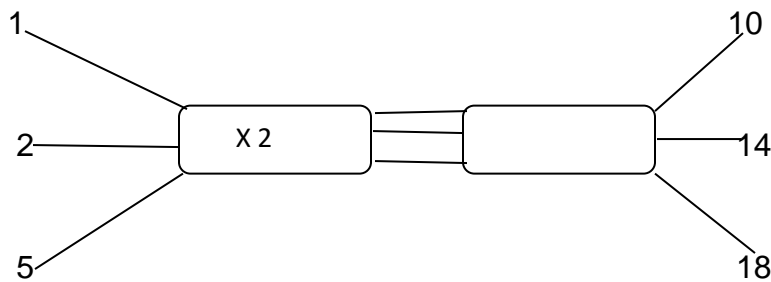
1.8) Arrange the following mass in a descending order: 150 g; 1kg; 7500g; 2kg;  $\frac{1}{2}$  kg (1)  
 A. 150g;  $\frac{1}{2}$  kg; 1kg; 2kg; 7500g  
 B. 7500g; 150g;  $\frac{1}{2}$  kg; 1kg; 2kg  
 C. 7500g; 2kg; 1kg;  $\frac{1}{2}$  kg; 150g  
 D. 150g; 1kg;  $\frac{1}{2}$  kg; 7500g; 2kg

1.9) A litre bottle is filled  $\frac{1}{4}$ . How many ml is needed to fill the bottle? (1)  
 A. 750ml                      B. 270ml                      C. 500ml                      D. 250ml

1.10) Look at the following shapes.  
 In which shape is the line XY an incorrect line of symmetry? (1)



1.11) Complete the rule for the following input and output: (1)



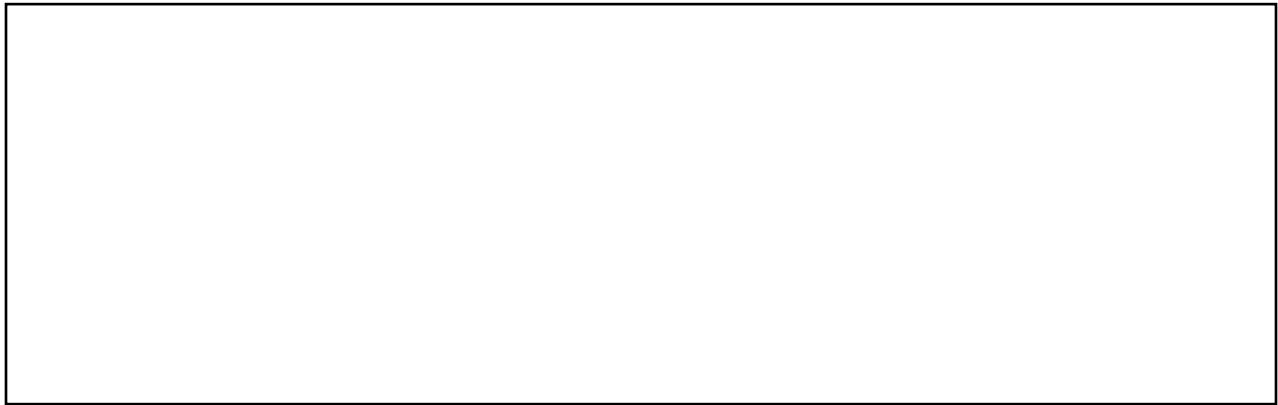
**Total: 11**

## Question 2 Basic calculations

Calculate the following using any method:

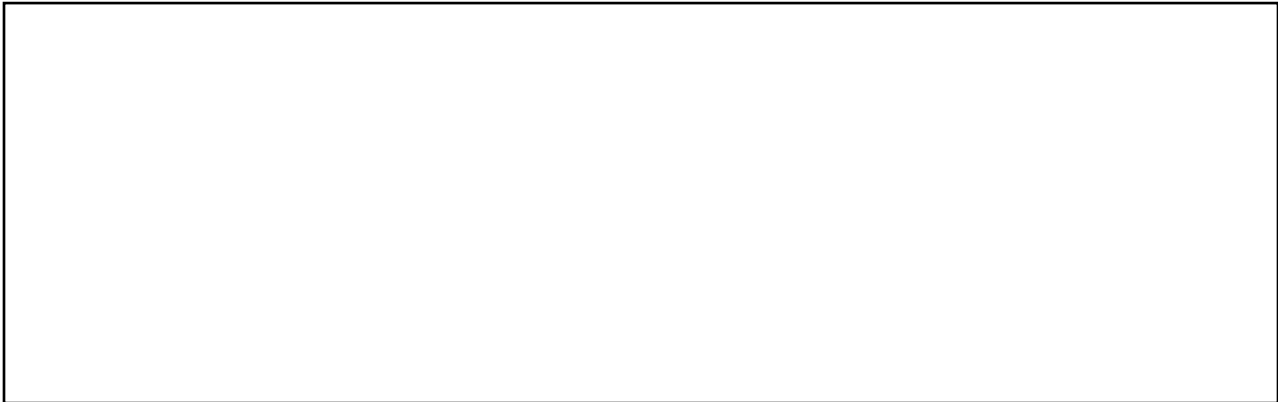
a)  $12\,748 + 13\,887$

(2)



b)  $62\,363 - 21\,057$

(2)



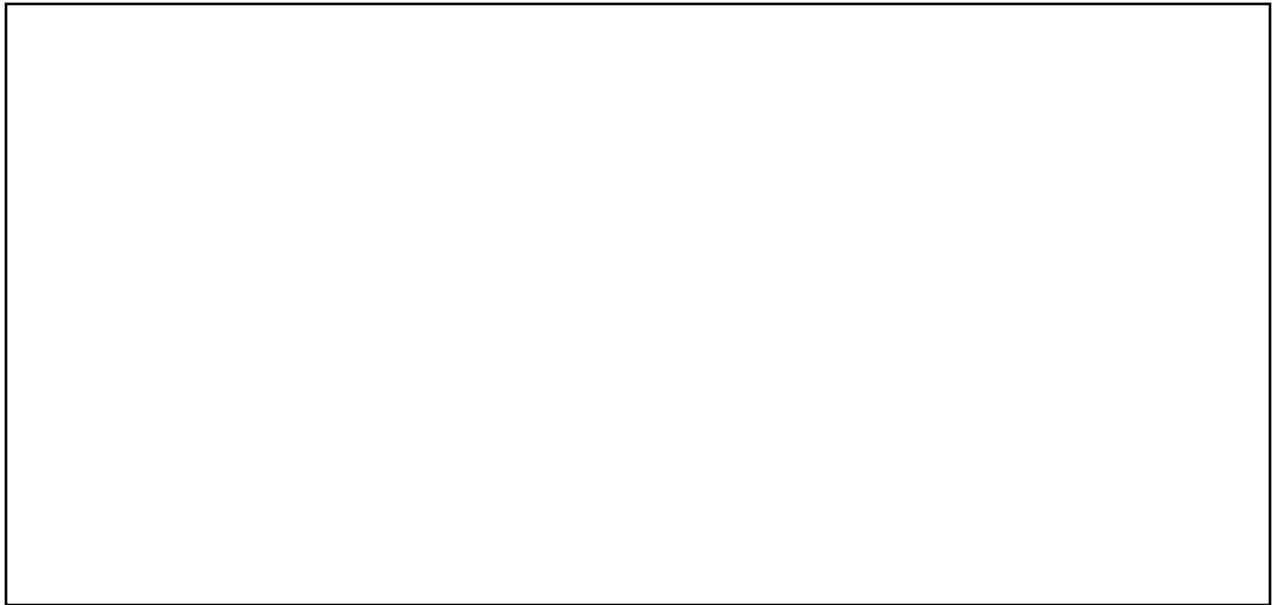
c)  $312 \times 13$

(3)



d)  $338 \div 13$

(3)



e)  $15\frac{3}{7} - 7\frac{4}{7}$

(3)



**Total: 13**

**Question 3 Time**

3.1 Look at the time table given for this weekend on the Discovery Channel.

Discovery Channel (121)

Time	Programmes	Time	Programmes
06:00	<i>Cut In Half</i>	08:45	Myth Busters
06:50	<i>Ultimate Weapons</i>	09:45	Gold Rush
07:45	<i>American Chopper</i>	10:50	Breed Masters

3.1.1 Which is the longest programme? How long is it? (2)

\_\_\_\_\_

3.1.2 Which programmes are shorter than an hour? (2)

\_\_\_\_\_

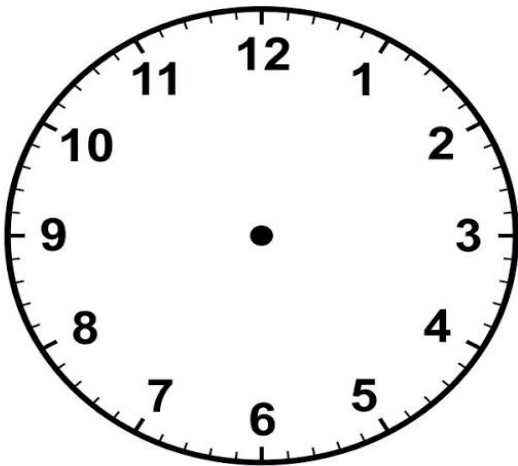
3.1.3 What length of time is *Myth Buster*? (1)

\_\_\_\_\_

3.1.4 Write the following times in a 24-hour format

07:45 A.M \_\_\_\_\_ (1)

3.1.5 Show this time on the clock 16:45:10 (2)



3.1.6 The average normal human body temperature is \_\_\_\_\_ degrees Celsius (1)

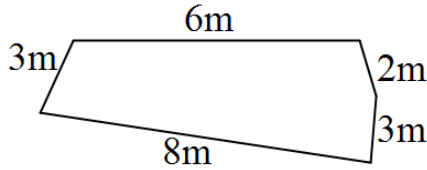
**Total: 9**

**Question 4 Perimeter, Area and Volume**

Study the following figures then answer the questions:

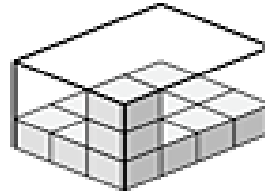
4.1. Find the perimeter of the figure and the volume of the container below

A



A. Perimeter= \_\_\_\_\_  
 = \_\_\_\_\_  
 = \_\_\_\_\_

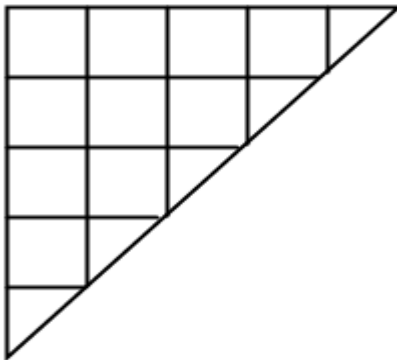
B



B. Volume = \_\_\_\_\_ (2)

4.2 Find the area of the picture below.

(1)



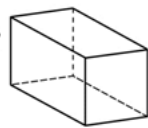
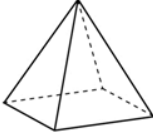
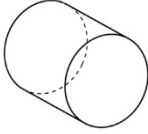
\_\_\_\_\_

**Total: 5**

**Question 5: 3-D Objects, Position and Movement**

5.1. Study the 3-D objects below and complete the table: spaces on a, b, c, d

(4)

Examples of 3-D Objects			
Name of 3-D object	Rectangular Prism	Square- based Pyramid	a) _____
Number of faces	6	b) _____	3
Name of shapes of faces	c) _____	d) _____	Circles and rectangles

5.2. Study the following map and answer the questions that follow:



5.2.1. In which cell is Smithfield? \_\_\_\_\_ (1)

5.2.2. Does the N1 Highway go through D10? \_\_\_\_\_ (1)

**Total : 6**

**Question 6: Symmetry, Transformation and Viewing objects**

6.1. How many lines of symmetry does the shape have? Show them. (2)

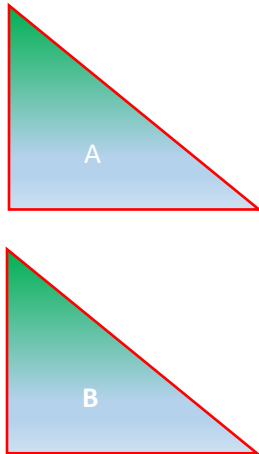




6.2. Study the following diagram. State the transformation that has occurred from A to B.

Give the correct **mathematical term**.

(2)

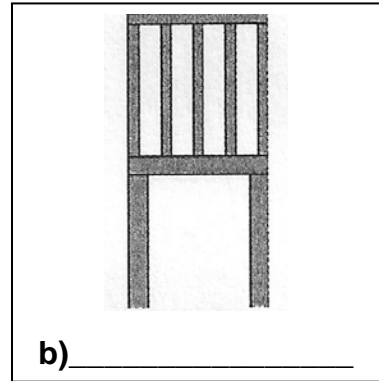
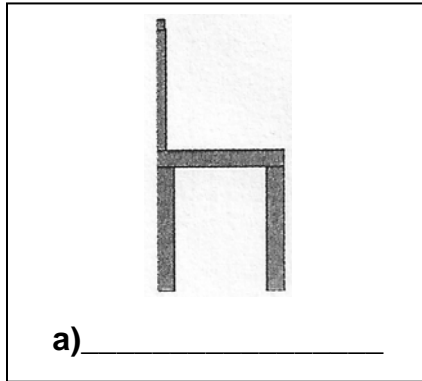
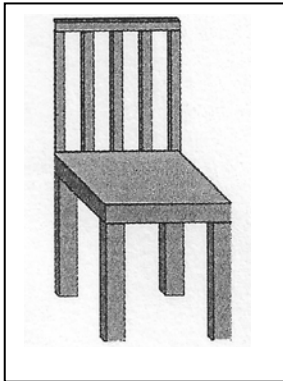


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6.3. Name the views of the picture below.

(2)

Main Picture: A Chair



**Total: 6**

### Question 7: Probability and Data Handling

7.1. Think of the two coins that are the same.

Make sure you know which side is heads and which is tails.

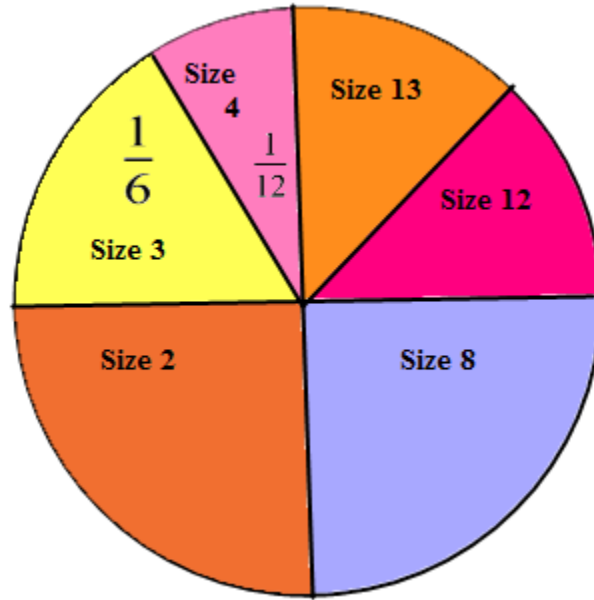
7.1.1. If you throw both coins into the air, they could both land on heads. What are the other ways in which they could land? (1)

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7.1.2. How many possible outcomes are there? (1)

7.2. The **Pie Chat** shows the results of a survey. The survey was of the shoe size for grade 5 learners, 48 learners were interviewed.



7.2.1. What is the fraction for size 12

\_\_\_\_\_ (1)

7.2.2. Complete the following tally table:

(4)

Size	Tally	Total
1	a)	6
3	++++ +++++	b)
12	c)	d)

**Total: 7**

**Question 8: Problem Solving**

Use any method to solve these problems:

8.1. There are **1 453** learners at John's School. If **876** are boys, how many girls are there?

(2)

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

8.2. Peter takes part in a four-day cycle tour. He cycles 81km on the first day, 73km on the second day and 67km on the third day. How far must he cycle on the last day, if this tour 290 km long? (3)

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8.3. Find the sum of 6 458 and 2 146 and then halve your answer. (3)

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**Total: 8**  
**TOTAL: 65**