



UNIVERSITY OF JOHANNESBURG
FACULTY OF EDUCATION
DECEMBER
SUPPLEMENTARY EXAMINATION 2015

PROGRAMME: BED FOUNDATION PHASE

MODULE: MATHEMATICS FOR FOUNDATION PHASE

CODE: MFP 10B2

TIME: 2 hours

MARKS: 100

EXAMINER: PROF. K. LUNETA

MODERATOR: DR. J. P. MAKONYE

(This paper consists of 4 pages)

INSTRUCTIONS

Read the following instructions carefully before answering the questions.

1. This question paper comprises of 5 question divided into several parts.
2. Answer all the questions.
3. Calculators are not allowed in this examination

QUESTION 1

- 1.1 Name the main attributes of measurement and for each write down all the units used to measure the attribute. (10)
- 1.2 Name the two systems used in measurements worldwide. (2)
- 1.3 In measurement what do you understand by terms standard and none standard units of measure. (4)
- 1.4 Define capacity and volume (4)
- 1.5 What do you understand by the terms conservation of mass and capacity (4)
- 1.6 Find the area in cm^2 of a rectangular surface whose length is 100m and breadth is 50 m (3)
- 1.7 Find the volume in litres of a prism whose dimensions are 5m by 10 m by 15 m. (4)
- 1.8 If an elephant is said to weigh 5 tones, what is its mass
 - i. kg,
 - ii. g

(6)

- 1.9 Name the instruments and the units used to measure the following

- i. Temperature
 - ii. Rain
 - iii. Time
 - iv. Depth of a sea
 - v. Speed of a ship
- (5)

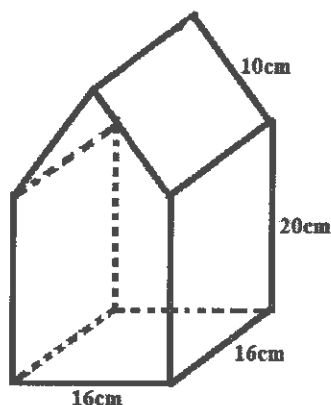
1.10 A plane departs from New York at 09.25 on Monday and stops in Luanda to refuel for 1hr 30 minutes. If the time difference is 6 hours and the arial flight time is 12.45 minutes at what time and day will it arrive in Johannesburg.

(4)

[44]

QUESTION 2

Find the volume of the polyhedron in litres



[6]

QUESTION 3

Define and draw angles that are

- iii. Compelementry (3)
- iv. Supplementary (3)
- v. Congruent (3)

[9]

QUESTION 4

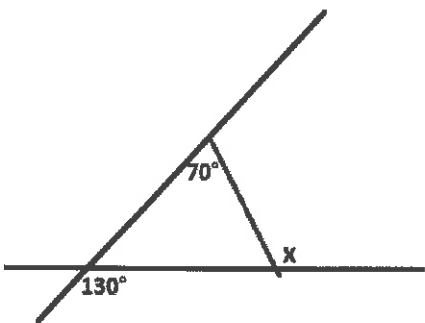
Draw the following angles

- i. Acute angle (3)
- ii. Reflex angle (3)
- iii. An obtuse angle (3)

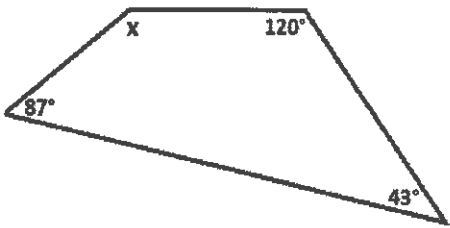
[9]

QUESTION 5

4.1 Find the values of X in i and ii below



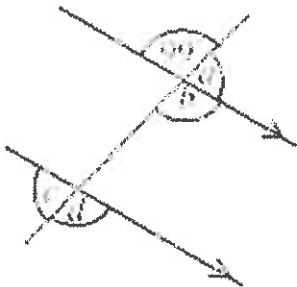
i.



ii.

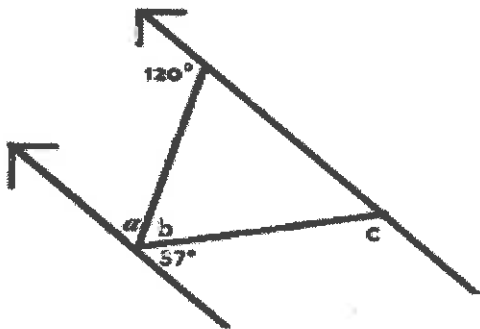
(4)

5.2 Find the values of angles marked: *a*, *b*, *c* and *d*



(4)

5.3 Find the size of the angles marked *a*, *b* and *c* in the diagram below:



(4)

5.4 What is the **sum of the interior angles** of a 40 sided regular shape?

(4)

[18]

QUESTION 6

Name the TWO units used to measure the following attributes in imperial and metric

Attribute	Imperial Units	Metric Units
Capacity		
Length		

Mass		
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[6]

QUESTION 7

Complete the table below

4.5 kmcmmm
29831200 mmmkm
8416200gkgtonnes
2400 minuteshrseconds
1.25lcm ³m ³

TOTAL: 100

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