UNIVERSITY OF NAMIBIA

SUBJECT	MATURE AGE ENTRY TEST
SUBJECT AREA	NUMERACY(NON SCIENCE)
DATE	SEPTEMBER 2017
DURATION	2 HOURS MARKS :100

This question paper consists of 9 pages including the cover page

Student number.....

Surname:.....

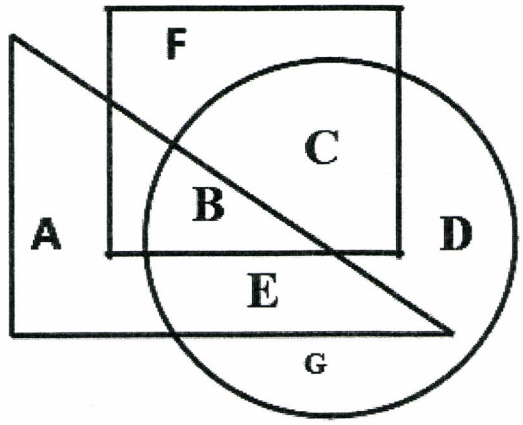
First Name:.....

Centre:.....

Instructions

- Show your calculations.
- Calculators are allowed
- Round answers to one Decimal Place where Needed

1. Which letter is in the square and also in the triangle, but not in the circle? [2 marks]



2. Given an equation $2y + 7x + 3 = 0$ [6 marks]
   a. Make x the subject of the formula

   b. Make y the subject of the formula

   c. What is the value of y when $x = 5$

3. write $\frac{9}{2}$ as a decimal number [2 marks]

4. Write $5\frac{3}{500}$ as a decimal number [3 marks]

5. How do you write 200% as a decimal? [2 marks]

6. What percentage of N$8 000.00 is N$ 2 400.00 [3 marks]

7. If x% of 80 is 20. Find x [3 marks]

8. Find three consecutive numbers that sum up to 45 [4 marks]

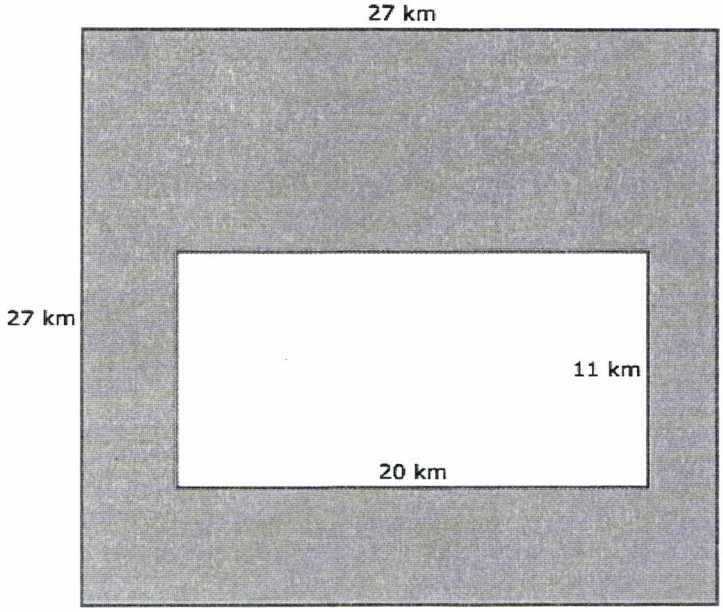
9. Given a **square** with perimeter 40 cm and side (x+7) cm. [4 marks]

   a. find the value of x

   b. calculate the area of the square

10. A rectangle has an area of 34.5 $\mathbf{km^2}$ and a height of 7 **meters**. find the width. [4 marks]

11. What is the area of the shaded region? [6 marks]



12. Just fill in the correct symbol: <,= and > [10 marks]

a. $\frac{2}{3} \ldots\ldots\ldots\ldots \frac{5}{6}$

b. $4 \ldots\ldots\ldots\ldots \sqrt{12}$

c. $-21 \ldots\ldots\ldots\ldots -7$

d. $2\frac{1}{2} \ldots\ldots\ldots\ldots 2\frac{1}{5}$

e. $4.5 \ldots\ldots\ldots\ldots \frac{9}{2}$

13. The Roman numeral IV stands for? [1 mark]

14. Simplify the following expressions [6 marks]

a. $5m + 7mn + 8nm + 9a + 8m$

b. $2ac + (5a)(2c)$

15. find the next two number in each sequence below [10 marks]

a. 1; 2; 3; 5; ....., ...
b. -14; -9; -4; ....., ...
c. 62, 67, 72, ... , ...
d. $1\frac{1}{4}, 1\frac{1}{2}, 1\frac{3}{4}$, ..., ...
e. 4; 7; 11; 16, ..., ...

16. Use the rule given below [4 marks]



a. When a=7 then b=.....

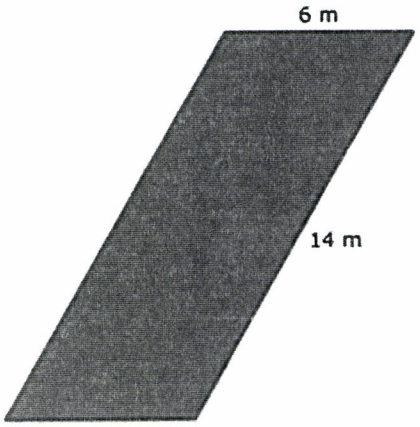
b. When b=10 then a=.....

17. Solve the equation for k [3 Marks]
$8k - 9 = 10k + 9$

18. Peter jars 3 liters of jam everyday how many days did Peter spend making Jam if he Jarred 27 Liters of Jam? [3 marks]

19. Maria's office had already recycled 18 kilograms this year before starting the new recycling plan, and the new plan will have the office recycling 3 kg of paper per week. How many weeks will it take Maria's office to recycle a total of 24 kilograms of paper? [5 marks]

20. What is the perimeter of the parallelogram below? [3 marks]



21. Convert 48 inches to centimeters if 1 inch = 2.54 cm [2 marks]

22. Convert 3 kilometers to millimeters [2 marks]

23. Regan took the bus down town to go shopping. She got on the bus at 12:30 pm and got off at 1:30 pm. How long did it take the bus to get down town? Give your answer in Hours and Miniutes [2 marks]

.....Hr.....Min

24. How many years are in a century ? [2 marks]

25. How many hours are in 5 days? [2 marks]

26. $2\ days\ 23\ hours + 2\ days\ 13\ hours =$ [3 marks]

[ ]$Days$ [ ]$Hours$

27. Given that 5 miles = 8 kilometers. [6 marks]

    a. How many meters in a mile?

    b. If John runs the mile in 3.5 Min, what is his speed in meters/min?

    c. What is his speed in km/h

28. Fill in the correct measures from this list: km; m; cm; mm; kg; g; kl; ml; ha.

a. Mass of a brick: 7 _____

b. Height of a small boy: 125 _____

c. Capacity of a full farm dam: 48 _____

d. Mass of a coin: 5 _____

e. Size of a farm: 10 000 _____

f. Capacity of a glass: 225 _____

g. 7. Mass of a man: 86 _____

h. Length of a room: 28 _____

i. Diameter of a coin: 35 _____

j. Mass of a pencil: 3.89 _____