

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:.....

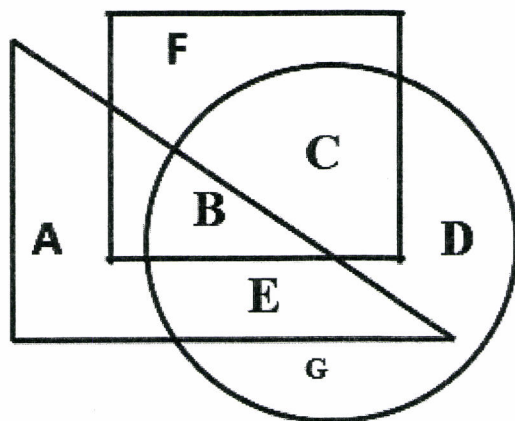
First Name:.....

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]

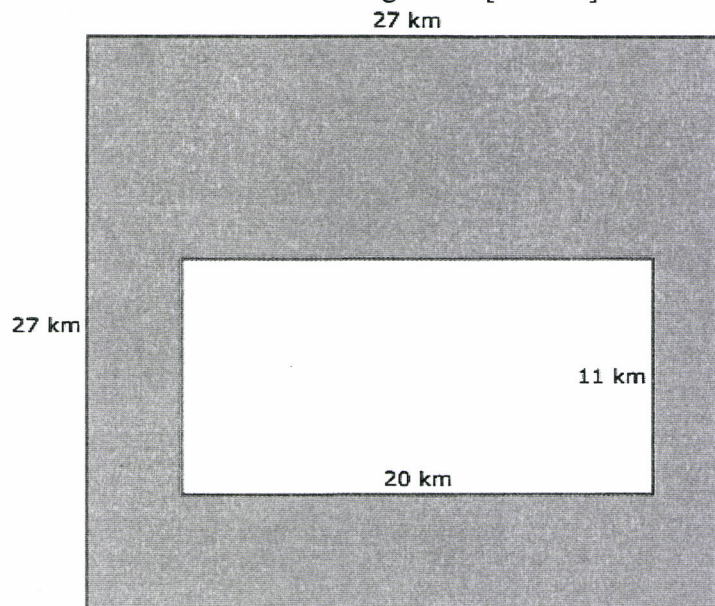
9. Given a **square** with perimeter 40 cm and side $(x+7)$ cm. [4 marks]

a. find the value of x

b. calculate the area of the square

10. A rectangle has an area of 34.5 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. $\frac{2}{3} \dots\dots\dots \frac{5}{6}$

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

c. $-21 \dots\dots\dots -7$

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

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

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]



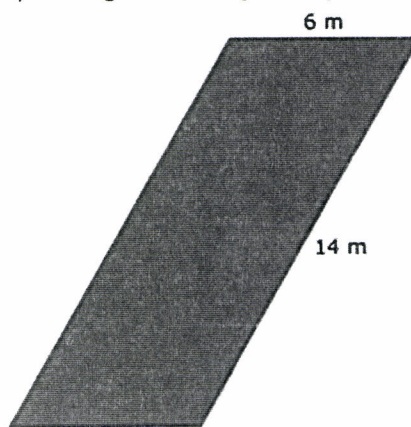
- a. When $a=7$ then $b=.....$
- b. When $b=10$ then $a=.....$

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. $2 \text{ days } 23 \text{ hours} + 2 \text{ days } 13 \text{ hours} =$ [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 _____