

DIVINE EDUCATION CENTRE

PRE-PRIMARY LEAVING EXAMINATION 2022

MATHEMATICS (ITEM 4 of 4)

Time allowed: 2hours 30 minutes

Random No.					Personal No.			

Candidate's na	ame:	•••••	• • • • • • • •	•••••	•••••	• • • • • • • • • • • • • • • • • • • •		
Candidate's Signature:								
District ID:								

Read the following instructions carefully:

- 1. Do not write your **school** or **district name** anywhere on this paper.
- 2. This paper has two sections **A** and **B**. Section **A** has **20** questions and section **B** has **12** questions. This paper has **14** pages printed altogether.
- 3. Answer **all** questions. All the working for both sections **A** and **B** must be shown in the spaces provided.
- 4. **All** working must be done using a **blue** or **black** ball point pen or ink. Any work done in pencil other than graphs and diagrams will **NOT** be marked.
- 5. **No calculators** are allowed in the examination room.
- 6. Unnecessary **changes** in your work and handwriting that cannot be easily read may lead to loss of marks.
- 7. Do not fill anything in the table indicated **"For examiners' use only"** and the boxes inside the question paper.

FOR EXAMINERS'						
USE ONLY						
Qn. No.	MARKS	EXR'S No.				
1- 5						
6 -10						
11- 15						
16 - 20						
21 - 22						
23 - 24						
25 – 26						
27 - 28						
29 – 30						
31 - 32						
TOTAL						

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SECTION A: 40 MARKS

Answer **all** questions in this section

Questions 1 to 20 carry two marks each

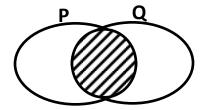
1. Work out: 55 ÷ 5

2. Write "Fourteen thousand forty" in figures.

3. Solve the equation: 3w-(w-1) = 11

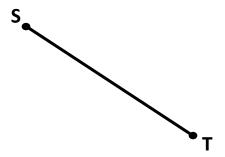
4. Work out: $\frac{4}{5} - \frac{4}{15}$

5. Describe the un shaded region in the venn diagram below.



6. Solve the inequality: k-3 < 2

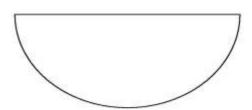
7. Using a pair of compasses, ruler and a pencil only, bisect the line segment ST below.



8. A trader bought a dress at sh.47,000 and later sold it making a profit of sh.13,000. How much did he sell the dress?

9. The total distance round the figure below is 54 dm.

Find its diameter.

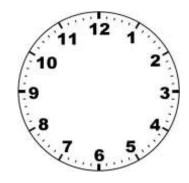


10. Simon bought 3 boxes with $\frac{1}{2}$ dozen of 96 pages of exercise books. He later sold off one dozen of books. How many pages did he remain with?

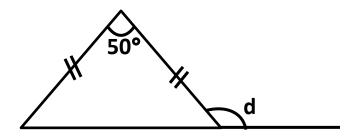


11. Mr .Ssegona arrived for the meeting at 8:55a.m. If he arrived 15 minutes late for the meeting.

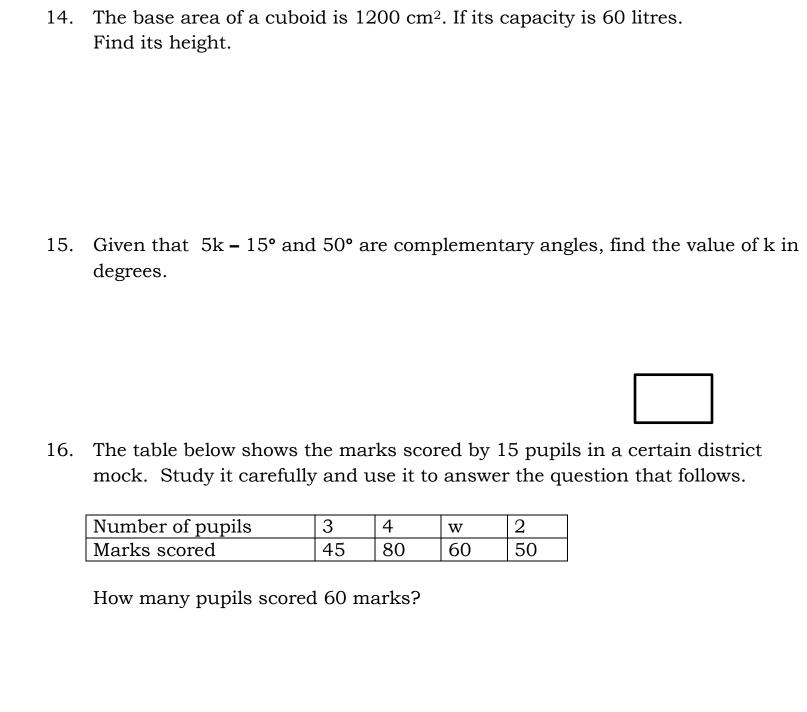
Show the time the meeting started on the clock face below.



12. Find the value of d in the figure below in degrees.



13. A cyclist covered a certain distance at 60 km for every one hour in 45 minutes. Calculate the distance covered by the cyclist.



A minute hand is 14 cm long. It moved for 45 minutes.

What distance did it remain with to make a complete revolution?

5

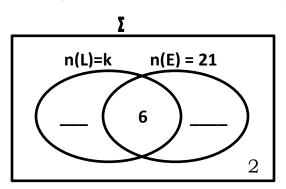
17.

18.	Najjuuko borrowed a certain amount of money from a saving group at the rate of 8% p.a for 9 months. If the money yielded a simple interest of sh.24,000 after 9 months. Calculate the money Najjuuko borrowed from the saving group.
19.	The direction of town W from town K is S20°E. Find the bearing of town K from town W.
20.	The length and width of a rectangular piece of cloth is in the ratio of 3:2 respectively. If the area of the cloth is 54 square metres. Find the total distance round the cloth.

SECTION B: 60MARKS

Answer **all** the questions in this section Marks for each question are indicated in the brackets

- 21. In a class, 21pupils speak English(E), 6 pupils speak both Luganda and English. The number of pupils who speak English only is eight less than those who speak Luganda(L) and 2 pupils do not speak any of the two languages.
 - (a)Use the given information to complete the venn diagram below.



(b) How many pupils speak Luganda only?

(3marks)

(2marks)

22. The cash price of a new bicycle is sh.1,200,000 and the instalment price of the same bicycle is sh.400,000 per month for 5 months.

If Odong bought the bicycle in instalment, how much more money did he pay per month than buying it on cash price?

(4marks)



23. Jennifer went for shopping with sh.30,000 and bought the following items.

Items	Quantity	Unit cost	Total cost
Beans	kg	Sh.3500 per kg	Sh.10500
Salt	$1\frac{1}{2}$ kg	Sh.1500 @ kg	Sh
Meat	500 g	Sh @ kg	Sh.7500
	Total	Expenditure	Sh

a) Complete	the	table	above.
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(4marks)

b)How much money did she remain with?

(2marks)

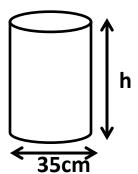
24. Musa drove from Kampala to Mpigi at a steady speed of 90km/h. He immediately drove back to Kampala at a steady speed of 60km/h with out resting.

The total time for the whole journey was 5 hours.

a)Calculate the distance between Kampala and Mpigi. (3marks)



25. Below is a metallic hollow cylindrical water tank whose volume is is $38,500 \text{ cm}^3$.



a) Find the height of the tank. (2marks)

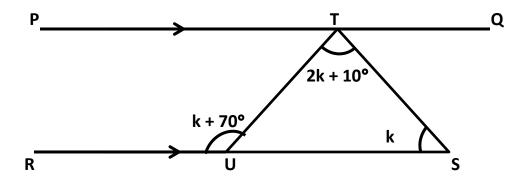
b)If the curved face of the tank is cut out to form a rectangular sheet such that the height becomes the width, how many circular plates of diameter 7cm can be cut from the curved face? (3marks)

26. a) Given that m=0 and n=1. Evaluate $9^n + 5^m$ (2marks)

b)Betty is a third as old as her mother. The difference between the mother's age and Betty is 24. How old is the daughter? *(4marks)*



27. In the figure below line PQ is parallel to line RS. Study the figure below and use it to answer the questions that follow.



a) Find the value of k in degrees.

(2marks)

b) Calculate the size of angle UTP.

(2marks)

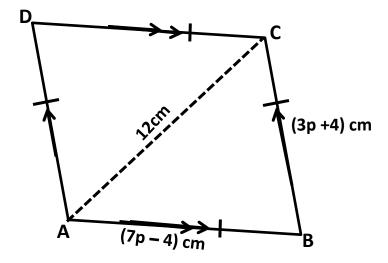
28. Tom and Juma started collecting mangoes.

Tom is having 4 more mangoes than Juma now.

After collecting 7 mangoes each, the number of mangoes collected will be in the ratio of 3:2 respectively.

How many mangoes will each have collected by then? (4marks)

29. Study the figure ABCD below carefully and use it to answer the question that follows.

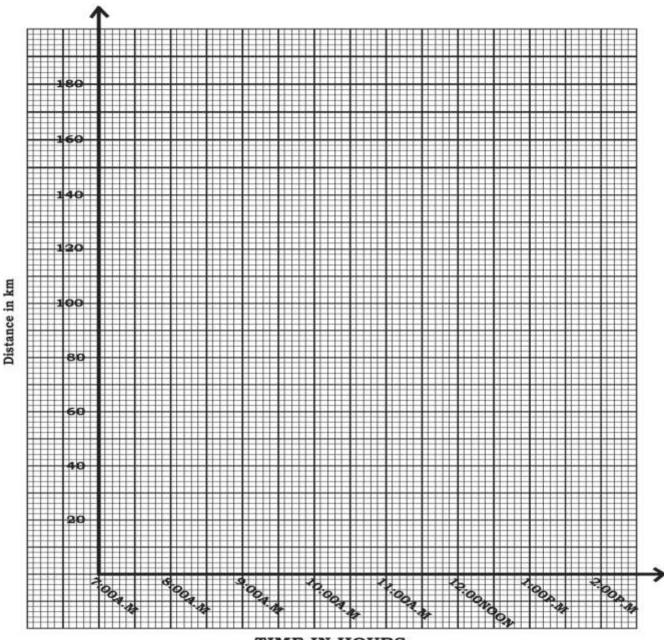


Find the area of the figure ABCD above.

(6marks)

30.	Two children Joshua and Aaron were asked to fill a water to Joshua a lone took 4 minutes to fill the tank and Aaron a lo minutes to fill the same tank. If Joshua and Aaron started filling the same tank at the same working at their respective pace.	one took 8 ne time while
	a) What fraction of the tank did they fill if they both worked tonly? (21)	narks)
	b)If the remaining part of the tank was 20 litres, calculate the tank. (3m)	ne capacity of the narks)
31.	Using a ruler and a pair of compasses only, a)construct a quadrilateral JKLM where line JK = 7cm, line and angle JKL = angle KJM=75°	KL=JM=5.8cm (4marks)

- 32. A motorist started his 180 km journey from town A to C at 7:30a.m. He drove at a speed of 40 km/h for 2 hours. He rested at town B for 30 minutes. He then continued to town C using the same speed to cover the remaining journey.
 - a)Use the given information to show the motorist's journey on the graph below. *(3marks)*



TIME IN HOURS

b)Calculate	the motorist's	average	speed :	for the	rney. (2marks)
			END		