CITY PARENTS' SCHOOL

P7 MATHEMATICS

HOLIDAY WORK TERM II 2022

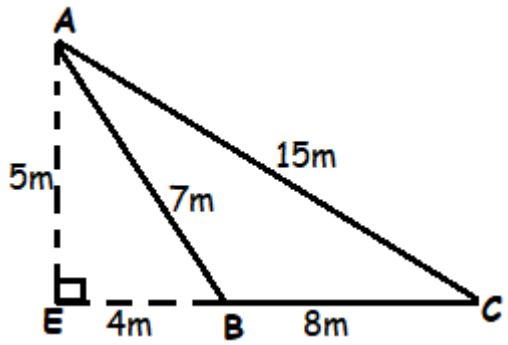
NAME : _____STREAM: _____

School:_____ Index No. _____

1. Change 0.25m to cm.

2. How many packets of 200grammes can be got from 2.6 kilogrammes of salt?

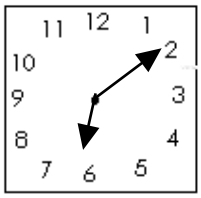
3. Find the area of the shaded part in the figure below.



4. Calculate the circumference of a circular wheel whose radius is

5. A closed cylindrical drum has a radius of 0.35m and height 1.22m. calculate the total surface area of the drum (Take $\pi = \frac{22}{7}$)

6. What morning time is shown on the clock face below?



7. A cyclist covers a distance of 21km in 45 minutes. How long will it take to cover 84km?

8. Amos ran a distance of 24km in 45 minutes. What was his speed in metres per second?

9. The time is 25 minutes past midnight. Express the time in 24 hour clock.

10. It started raining at 9:45am and stopped at 1:25pm. For how long did it rain?

11. The mean of the numbers 7,9,5, x + 2 and 6 is 8. Find the value of x.

12. The total number of black and blue pens in the bag is 24. If the probability of picking a blue pen from the bag is $^{3}/_{8}$, how many black pens are in the bag?

13. If  represents 1500 pupils in a school, find the number of pupils represented by 

14. The average age of 3 girls is 12 years. If one of them is 10 years old, what is the average of the other two girls.

15. A dice is tossed once. What is the probability of a composite number showing on top?

16. Workout: 0.9 – 0.1 + 0.8.

17. Express 20cm as a ratio of 2m.

18. 12 men can build a store room in 5 days. How many more men are needed to do the same piece of work in 2 days?

19. By selling sugar at sh. 40,000, a trader makes a loss of 20%. Calculate the cost price of sugar.

20. If the interest on a loan of sh. 140,000 for 6 months is sh. 5600, find the interest rate.

SECTION B

21. Small boxes of size A were packed in a big box of size B

a. How many boxes of size A can be packed on the first layer of box B? (2Mks)

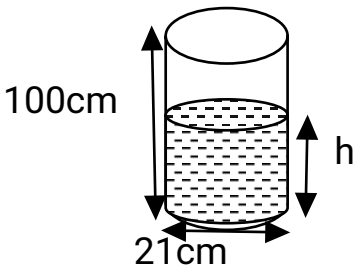
b. Calculate the space left unoccupied after packing. (3Mks)

22. The diameter of a wheel of a motorcycle is 35cm. The motor cycle covers 33km.

a. Find the number of revolutions the wheel makes to cover that journey. (2Mks)

b. If the motor cycle covers 110 metres per minute, how long will the journey of 33km take? (Give your answer in hours) (3Mks)

23. The tank shown below is $^{3}/_{5}$ full of water.



a. Find the value of h. (2Mks)

b. How many litres of water are needed to fill the tank? (3Mks)

24. A bus left Kampala for Mombasa at 7:15am traveling at a speed of 80km/hr. The bus got a puncture at Mbale at 12:15pm and the repair took 30 minutes. The remaining journey was covered at an average speed of 60km/hr for 4 ½ hours. Calculate the average speed of the bus over the whole journey.
(5Mks)

25. The table below shows the arrival and departure time for the bus moving between Nanyuki and Nairobi.

Town	Arrival time	Departure time
Nanyuki	_____	6:30am
Nyeri	7:50am	8:30am
Karatina	8:50am	9:10am
Sagana	9:40am	9:50am
Thika	11:00am	11:40am
Nairobi	12:10pm	_____

a. For how long did the bus take to travel from Thika to Nairobi. (2 Marks)

b. If the distance between Nyeri and Thika is 112km, what is the average speed of the bus between the two towns. (3Mks)

28. The table below shows the arrival and departure time for a bus from Masaka to Mukono.

Town	Arrival time	Departure time
Masaka	_____	10 35hrs
Lukaya	11 45 hrs	12 05hrs
Mpigi	13 15 hrs	14 05hrs
Kampala	14 55 hrs	15 20hrs
Kireka	16 35hrs	16 55hrs
Bweyogerere	17 40hrs	17 50hrs
Mukono	19 10hrs	_____

a. How long did the bus take to travel from Masaka to Mpigi? (2Mks)

b. What is the total time spent at all the stoppage points? (3Mks)

27. Pupils did a test and scored marks as shown in the table below.

Scores	50	M	45	80
No. of pupils	2	6	3	4

a. How many pupils did the test? (2 Mks)

b. Find the value of M if the average mark was 61? (3Mks)

28. The mean mark scored by six girls in a mathematics test is 71. Four of them scored 82 , 68, 70 and 64. What is the score of the sixth girl if she scored 10 more marks than the fifth girl? (5Mks)

29. Nassuna spends 50% of her pocket money on sweets, 20% on cakes and 30% of the remainder on chicken and saves sh. 21,000.

a. Calculate her total amount. (3Mks)

b. Using 4.5cm as radius , draw an accurate pie chart to represent the above information. (2Mks)

a. Simplify: $\frac{5}{6} \div \left(\frac{3}{4} \text{ of } \frac{3}{6} \right)$ (3Mks)

b. Workout: $\frac{0.85 - 0.01}{0.3 + 0.4}$ (3Mks)

31a. Tap **X** takes 3 minutes to fill the tank and tap **Y** takes 4 minutes to draw water from the tank. How many minutes will it take to fill the tank if both taps are left open? (2Mks)

b. A car got a puncture after covering $^{5}/_{7}$ of the journey. It had 140km left to complete the journey. How long was the journey? (2Mks)

32. Mayanja uses ½ of his shamba for growing maize, $^{1}/_{5}$ for beans and $^{1}/_{3}$ of the remainder for his homestead. The rest is used for grazing. What fraction of his shamba does Mayanja use for grazing animals? (5Mks)

END