

THE OASIS PRE-PLE EXAMINATIONS 2023
SET ONE
PRIMARY SEVEN
MATHEMATICS

Time allowed 2 hours 30 minutes

Index NO:

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Candidate's Name: _____

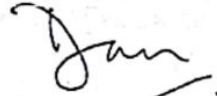
READ THE FOLLOWING INSTRUCTIONS CAREFULLY.

1. The paper is made up of two Sections A and B.
2. Section A has 20 questions (40marks).
3. Section B has 12 questions (60 marks).
4. Answer ALL questions in both Sections A and B.
5. All answers must be written in the spaces provided in BLUE or BLACK ink.
6. Only diagrams should be drawn in pencil.
7. Unnecessary crossing will lead to loss of marks.
8. Poor handwriting, which cannot be easily read, may lead to loss of marks.

FOR EXAMINER'S USE ONLY

Qn No.	MARKS	EXAMINER'S NO.
1-5		
6-10		
11-15		
16-20		
21-25		
26-30		
31-32		
TOTAL		

APPROVED:



Technical Director
Mathematics Department
Oasis Educational Services

OASIS EDUCATIONAL SERVICES

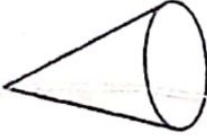
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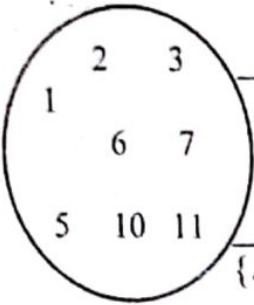
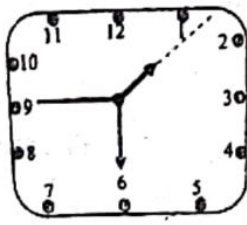
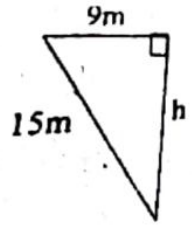
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SECTION A (40 Marks)

1.	Multiply: $\begin{array}{r} 3 \\ \times 7 \\ \hline \end{array}$	2.	Write "2 tens 9 ones" in Roman numerals.
3.	Use the 3- dimensional figure below to answer the questions.  (i) Name the figure. (ii) Find its number of faces.	4.	Draw a Venn diagram to show that all factors of 6 are factors of 12.
5.	Write in figures; "Sixteen and twenty four hundredths"	6.	Simplify: $t - p + 3t - 3p$
7.	The volume of a cylindrical bucket is 18000cm^3 . Express the capacity in litres.	8.	Using a ruler, a pencil and a pair of compasses only, construct an angle of 120° .
9.	Work out: 101×11 <small>two x 11 = two</small>	10.	Relax Junior will have a net ball match with Oasis primary school next week. Find the probability that Relax junior will win the match.

<p>11. Form two new sets from the big set below.</p> <div style="display: flex; align-items: center; justify-content: center;">  <div style="margin-left: 20px;"> <p>Prime numbers. { }</p> <p>Triangle numbers. { }</p> </div> </div>	<p>12. Tony and Ridges shared some money in the ratio 3:5 respectively. If Tony got Sh. 60,000, how much money did they share?</p>
<p>13. Subtract: Wks Days</p> $\begin{array}{r} 12 \ 1 \\ -7 \ 3 \\ \hline \end{array}$	<p>14. Find the sum of first 3 cube numbers.</p>
<p>15. Solve for the value of x; $3^2 \times 3^x = 3^3$</p>	<p>16. Workout: $3.5 - 5.01 + 3.01$</p>
<p>17. A set of 4 plates costs Sh. 12,000. Calculate the cost of 3 similar plates.</p>	<p>18. Round off 3846 to the nearest hundreds.</p>
<p>19. Tell the morning time shown on the clock face below.</p> 	<p>20. In the figure below, find the height (h) in metres</p> 

SECTION B (60 Marks)

21 The exchange rates at a forex bureau are as follows;

1 dollar (\$) cost Ug Sh. 3,700

1 British Pound Sterling (€) costs Ug Sh. 4700

(a) Convert Ug Sh. 740,000 to Us dollar.

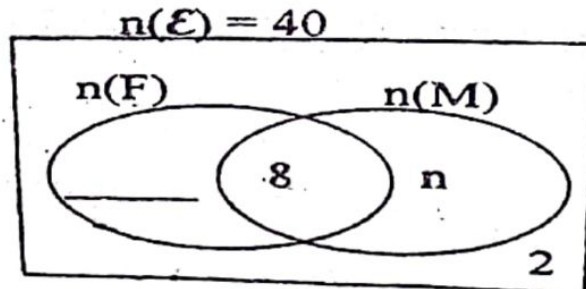
(2 marks)

(b) A computer set costs 470 Us dollars, find the cost of the computer set in British Pound Sterling.

(3 marks)

22 In a class of 40 pupils, 30 eat fish (F), n eat meat only (M) and 8 eat both fish and meat while 2 pupils do not eat any of the two dishes.

(a) Use the given information above to complete the venn diagram below. (1 mark)



a) How many pupils eat meat?

(3 marks)

b) Calculate the number of pupils who eat one type of dish only.

(1 mark)

23

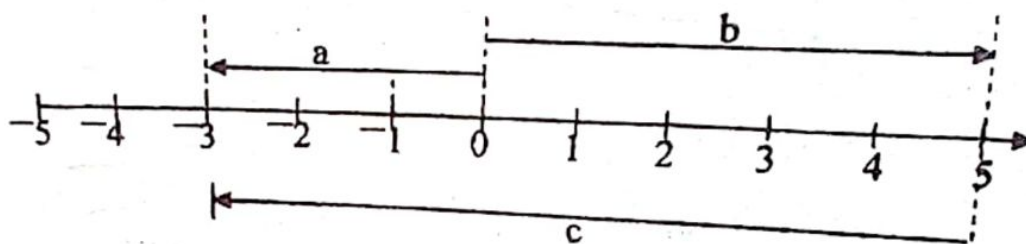
A chef prepared milk tea such that he used 10% more milk than water.

a) Find the percentage of water used. (2 marks)

b) If he used 33 litres of milk, how many litres of milk tea did he prepare? (3 marks)

24.

Use the number line below to answer the questions that follow.



(i) State the integers; (1 mark each)

a =

b =

(ii) Work out the product of integer a and c. (2 marks)

25.

The sum of edges of a cube is 132 cm.

(a) Sketch its net. (1 mk)

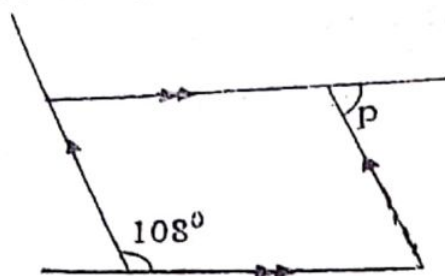
(c) How many vertices has the cube above? (1 mk)

(b) Calculate the volume of the cube. (3 marks)

26.

Use the quadrilateral below to find the size of angles marked P.

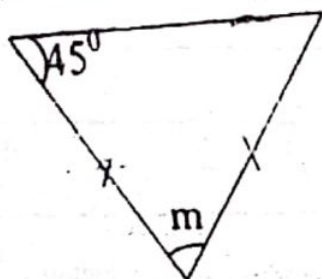
(a) (i) angle p (2 marks)



(ii) angle t (2 marks)

(c) Calculate the size of angle marked m.

(2marks)



27.

The time below shows how a motor cyclist travelled from town to village.

	Arrival	Departure
Town		9:30
Village	11:00am	

a) How long did the motor cyclist take to travel from town to village?(2 marks)

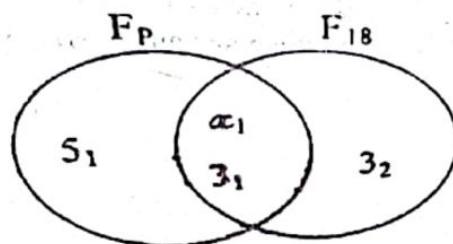
b) If the distance from town to village is 108km, workout the motor(2marks)
cyclist's average speed.

c) Express the motor cyclist's average speed to m/s.

(2marks)

28.

The Venn diagram below shows the prime factors of P and 18.



Find the values of;

(i) x

(1mark each)

(ii) p

(b) Work out the GCF of p and 18.
(1mark)

c) Calculate the LCM of p and 18.
(2marks)

29.

(a) Solve: $+ 7 = 11$

(2 marks)

b) The length of a rectangle is twice its width. If the perimeter of a rectangle is 30dm, find its area.
(3 marks)

30.


Hajati borrowed Sh. 2,000,000 from a village SACCO at a simple interest rate of 15% per annum.






















a) Find her total interest after a period of 3 years.
(2marks)

(b) Calculate the total amount of the money Hajati paid back after the period.
(2marks)

31. a) With the help of a ruler, a sharp pencil and a pair of compasses only, construct a triangle ABC in which $AB=8\text{cm}$, $BC=6\text{cm}$ and angle $ABC=90^\circ$.
(4marks)
- b) Measure hypotenuse AC. (1mark)

32. The Picto-graph below shows number of apples harvested in a week by Mr. David.

KEY:  stands for 5 apples.

DAYS	NUMBER OF APPLES					
MON						
TUE						
WED						
THUR						
FRI						

- a) How many apples were harvested on Tuesday? (1 mark)

- (c) When did Mr David harvest the same number of apples? (1 mark)

- (b) If David sold apples harvested on a Tuesday at Sh.1000 per apple, how much did he earn? (1 mark)

- d) Work out average of all apples harvested in the week? (2 marks)