EDUCATION SOURCE EXAMINATION BOARD 2024
PRE-PLE EXAMINATION 2024 SET I
P.7 MATHEMATICS
Time allowed:2 Hours 15 Minutes

TARGET MARK

Index No.
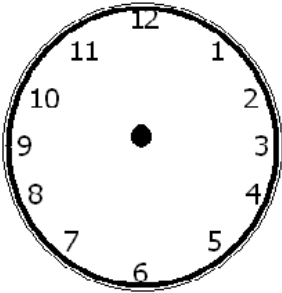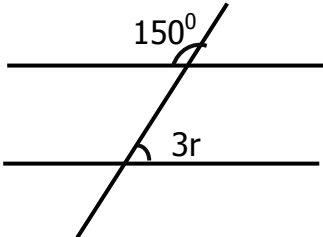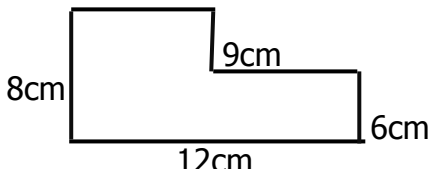
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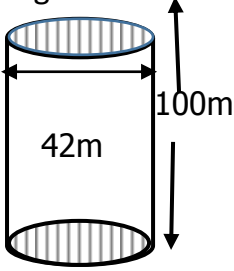
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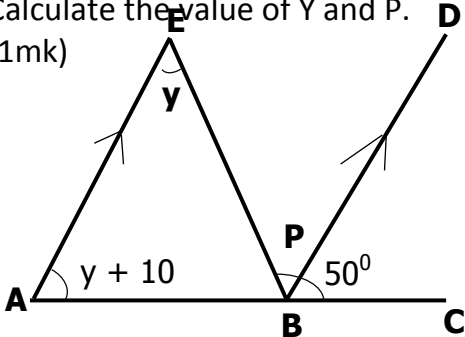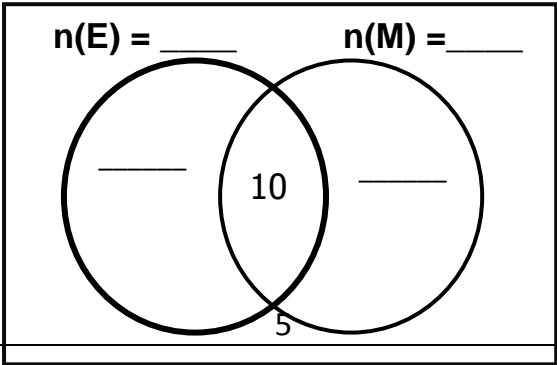
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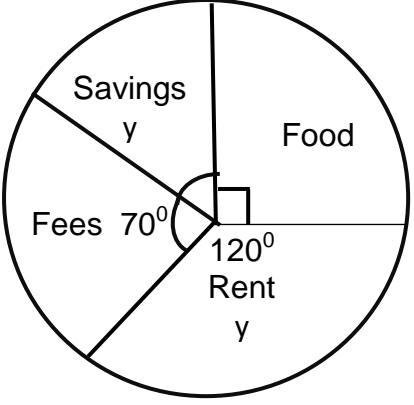
SECTION A

1.	Workout 44 x 2	6.	Workout; $2^5 \div 2^7$	
2.	Write 2020in words.	7.	Subtract ½ from $\frac{4}{5}$	
3.	Given that set R = {b,o,x} and set V = {b,r,o,k,e}. find n (V-R)	8	Akello ran 200m in 10 seconds. Calculate her speed in km/hr.	

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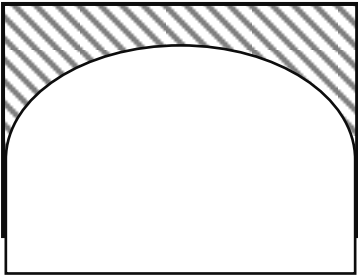
4.	If ▭ represents 20 boxes, draw pictures to represent 100 boxes.	9	Kaddu bought 4kg of sugar. He packed them into packets each weighing 200g,. how many packets did he get?
5.	Show a quarter past 12 o'clock on the clock face below. 	10	Add: $1 1 0 1_{two}$ $+ 1 1 1_{two}$ _____
11	Write MCD in Hindu Arabic numeral.	16	Find the size of angle marked r.
12	Find the next number in the sequence 1, 4, 9, 16, _____	17	Solve: $\dfrac{y}{3} - 4 = 0$
13	Express 246 in scientific notation.	18.	Calculate the perimeter of the figure below.

2

14.	Workout ⁻6 - ⁻2	19	Express 240 seconds as minutes.
15	Given that n = 4, b = -2 and p = 3. Evaluate $\frac{np + b}{b}$	20	A boy bought 12 books at sh. 8400. How much did he pay for half a dozen?
	Section B		

21. A welder cut a cylindrical tin below to make a door sheet.

Find the length of the door that was made from the tin. (3mks)

42m 100m

b. Calculate the area of the door that was made from the tin.(2mks)

22. Pauline went to the market and bought the following items.
3kg of rice at sh. 3000 each kg.
2 kg of meat at sh. 14000 per kg
1 ½ of sugar at 2700 each kg.
12 mangoes at sh. 1000 for every 4 mangoes.

a. Calculate her total expenditure
(5mks)

b.	If she went with a fifty thousand shillings note, how much change did she come back home with.
	(
23.	Study the figure below carefully and answer the questions that follow. Calculate the value of Y and P. (1mk)
b.	Find the size of angle EBC (2mks)
24. a.	In a class of 80 pupils, 40 pupils like Mathematics (M) (y + 5) like English but not Mathematics, 10 pupils like both subjects and 5 like neither of the two subjects. Complete the venn diagram below.
	(2mks)

n(E) = _____   n(M) = _____

b.	How many pupils like English? (2mks)
c.	If a pupil is chosen from the class at random, what is the probability that the chosen pupil like only one subject? (2mks)
25. a.	Construct a traingle ABC where BC = 7cm, $\overline{ABC}$ = 120^0 and AB 5.5$\overline{cm}$. (4mks)
b.	Measure AC (1mk)
26	The pre-chard below shows the expedniture of Mr. Kyagulanyi's monthly income. Use it to answer the questions that follow.
a.	Find the value of y.

	(2mks)
b.	If he spends sh. 360,000 on food, find his total monthly income. (2mks)
c.	How much more does he spend on rent than on fees? (2mk)
27.a	Solve $\frac{1}{3}(q + 4) = 2$ (2mks)
b.	Solve the inequality below and state the solution set. $3x - 6 \leq x + 10$ (3mks)
28. a.	Jane spent $\frac{1}{3}$ of her pocket money on sweets, ¼ of the remainder on pancakes, and saved the rest. What fraction of her pocket money was saved? (2mks)
b.	If she spent sh. 36,000 on pan cake. How much did she have as pcoket money?

	(2mks)
c.	Express her expenditure on sweets as a percentage. (1mk)
29.	The figure below shows a semi-circle in a rectabgle. Use it to answer the questions below.
a.	Calculate the area of the rectangle. (2mks)
b.	Find the area of the semi-cirle. (2mks)
c.	Workout the area of the shaded part. (1mk)
30.a	If today is Wednesday. What day of the week was it 20 days ago. (2mks)
b.	Solve for P: $201_p = 19_{ten}$ (2mks)

31	Marry bought a book at sh. 30,000 and later sold it making a profit of 5%. Find her selling price. (2mks)
b.	Work out: $\dfrac{0.2 \times 0.03}{0.001}$ (3mks)
32.	Marion is three times as old as Mark. In 5 years time she will be twice as old as mark. How old is Marion. (3mks)
b.	What will be thier total age then. (1mks)

END