

SET NINE 2017
PRIMARY SEVEN
MATHEMATICS

Time allowed: 2 hours 30 minutes

Index No.

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Candidate's Name: _____

Candidate's Signature: _____

School Name: _____

Read the following instructions carefully:

1. The paper has **two** sections: **A** and **B**
2. Section **A** has 20 short questions (40 marks)
3. Section **B** has 12 questions (60 marks)
4. Answer **ALL** questions. All answers to both Sections A and B must be written in the spaces provided.
5. All answers must be written using a blue or black ball point pen or ink. Diagrams should be drawn in pencil.
6. Unnecessary alteration of work may lead to loss of marks.
7. Any handwriting that cannot be easily read may lead to loss of marks.
8. Do **not** fill anything in the boxes indicated for Examiner's use only.

FOR EXAMINER'S USE ONLY

FOR EXAMINER'S USE ONLY		
Qn. No	MARK	SIGN
1 – 10		
11 – 20		
21 – 30		
31 – 32		
TOTAL		

Turn over

SECTION A (40 marks)

Questions 1 to 20, carry two marks each.

1. Work out: 34×2
2. Write 40,080 in words.
3. Given that set $K = \{1, 3, 5, 7, 9\}$ and set $M = \{1, 4, 9, 16\}$. Find $n(K \cap M)$.
4. Find the next number in the sequence: 4, 7, 6, 9, 8, _____.
5. Simplify: $-7 - -8$
6. Work out: $\frac{3}{4} \div 1\frac{3}{8}$
7. Simplify: $9pq - 3xy - 7pq + 8xy$
8. Using a ruler, a pencil and a pair of compasses only, construct an angle of 30° in the space below.

9. Kapere has 12 pens in his bag. Seven of the pens are blue and the rest are black. What is the probability of picking a black pen at random from the bag?
10. Hudah bought a dozen of eggs for Shs. 3,000. If she sold them at Shs. 300 per egg, what was her profit?
11. Change $3\frac{1}{2}$ kg to grams.
12. Work out: $2585 \div 11$
13. What afternoon time is shown on the clock face below?



14.

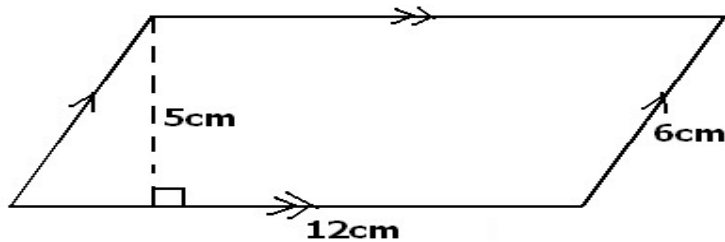
15. Solve: $10^{2y} \times 10^3 = 10^5$

16. A man faces East and turns clockwise to face South West. Through what angle does he turn?

17. If $a = \frac{2}{3}$ and $b = \frac{3}{4}$, find the value of ab .

18. The product of two numbers is 48. If their G.C.F is 2, find their L.C.M.

19. Find the area of the parallelogram below.



20. Twelve men can paint a house 6 days. How long will 8 men take to the same job?

Section B (60 marks)

21. The table below shows Ms. Abegesa's shopping bill.

Item	Quantity	Price	Cost
Sugar	2kg	Shs. 2500	Shs. _____
Rice	2 ½ kg	Shs. _____	Shs. 9000
Salt	_____ kg	Shs. 1800	Shs. 900
Total Expenditure			Shs. _____

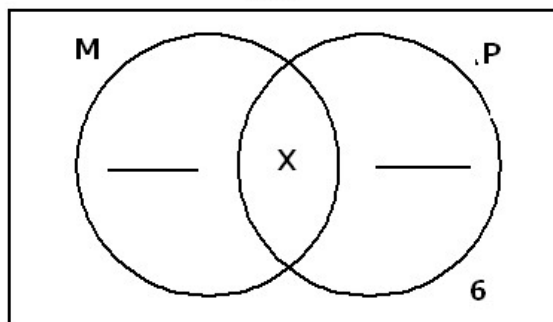
- (a) Complete the table. **(4 marks)**

- (b) If she was left with Shs. 5,100, how much money had she gone with? **(1 mark)**

22. At a party attended by 57 guests, 35 ate Meat (M), 33 ate Peas (P), **x** ate both types of sauce. 6 ate none of these.

- (a) Complete the Venn diagram below. **(2 marks)**

$$n(\xi) = 57$$



- (b) _____ ate of sauce.

(2 marks)

(c) How many guests ate only one type of sauce?

(1 mark)

23(a) What is the difference between the value of 8 and the value of 6 in 78564?

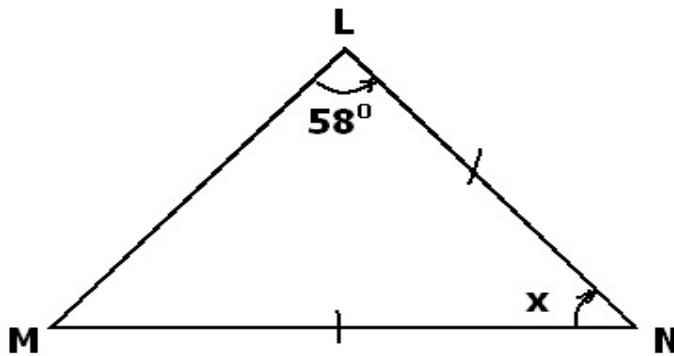
(3 marks)

(b) Round off 4983 to the nearest hundred.

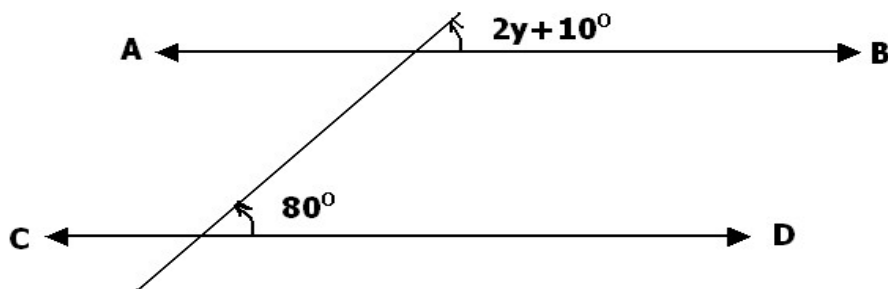
(2 marks)

24(a) Work out the value of x in triangle LMN.

(3 marks)



- (b). In the figure below, AB is parallel to CD. What is the value of y ? **(2 marks)**



25. The mean of : 2 , 7 , 5 , p , 3 and 10 is 8.

- (a) Find the value of p . **(3 marks)**

- (b) What is the median of the numbers? **(2 marks)**

- 26(a) Using a ruler, a pencil and a pair of compasses only, construct a rectangle ABCD in which $AB = 8\text{cm}$ and $BC = 7\text{cm}$. **(4 marks)**

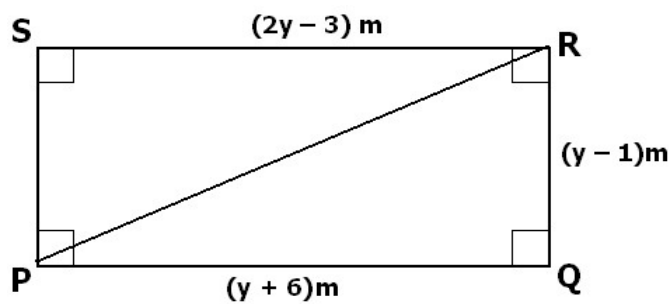
- (b) Measure: $AC = \underline{\hspace{2cm}}\text{cm}$ **(1 mark)**

27. Angel is 24 years younger than Cathy. In 5 years' time, Cathy will thrice as old as Angel.

(a) How old is Angel now? **(3 marks)**

(b) How old will Cathy be in 5 years' time? **(1 mark)**

28. The figure below is a rectangle PQRS.



(a) Work out the value of **y**. **(2 marks)**

(b) What is the length of **PR**? **(4 marks)**

29. A motorist covered the journey from town A to town B in 3 hours at 80km per hour.
He then covered the remaining journey to town C in 2 hours at 75km per hour?

(a) What distance from town A to town B? **(3 marks)**

(b) Calculate the motorist's average speed for the whole journey. **(2 marks)**

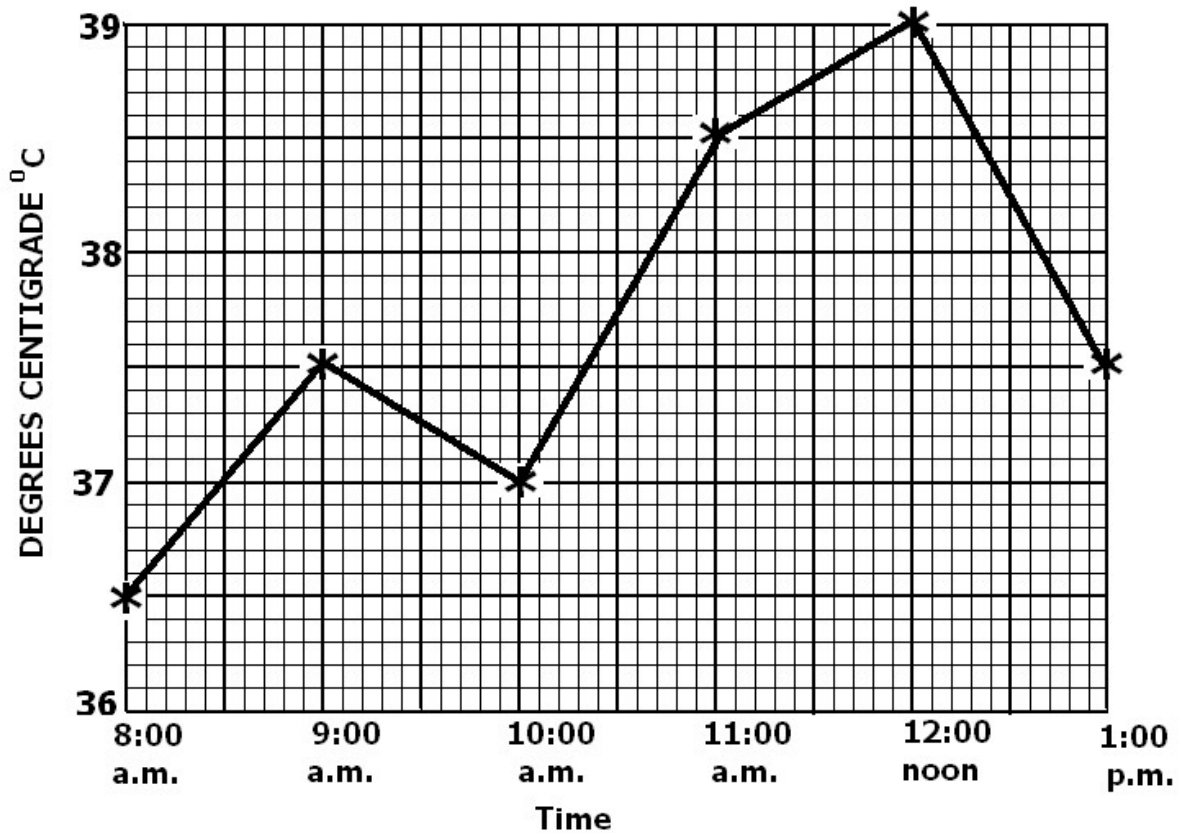
30(a) Express 9 minutes as a percentage of 45 minutes. **(2 marks)**

(b) Work out: $\frac{34.1 - 19.7}{0.6 \times 0.8}$ **(3 marks)**

31(a) What number has been expanded to give: $(8 \times 10^3) + (2 \times 10^2) + (9 \times 10^0)$? **(3 marks)**

- (b) Use distributive property only to work out: $(7.34 \times 47) + (7.34 \times 53)$ **(2 marks)**

32. The graph below shows a patients' temperature recorded from 8:00am to 1:00pm.



- (a) What was the patients' temperature at 8:00am? **(1 mark)**
- (b) At what times was the temperature the same? **(2 marks)**
- (c) What was the highest rise in temperature? **(1 mark)**
- (d) When was the temperature 38.5°C? **(1 mark)**