

Kings schools-Kabowa
P. 6 End of Term I Examination, 2020.
Mathematics.

Time allowed: 2 hours and 30 minutes

Name: _____ Stream: _____

SECTION A (40 Marks)

1. Work out: $79 - 48$

2. Write 58,030 in words.

3. Given that set $C = \{2, 3, 7, 10, 11\}$ and set $D = \{3, 5, 6, 7, 11, 15\}$, find $n(C \cap D)$.

4. Simplify: $^{-}5 - ^{-}3$

5. Simplify: $\frac{2}{5} \div \frac{8}{15}$

6. Find the next number in the sequence: 2, 3, 6, 11, 18, _____

7. Simplify: $4gk + 3mn - gk - 5mn$

8. Show all the lines of folding symmetry in the figure below.



9. Wambede bought a bicycle at sh. 200,000 and sold it for sh. 167,500. Calculate the loss.

10. Change 4500g to kilograms.

11. What number has been expanded $600,000 + 1,000 + 400 + 5$?

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



13. Work out: $7575 \div 15$

14. The table below shows numbers and their representation in tally marks. Study it carefully and answer the questions that follow. Complete the table below.

Number	Tally
6	
8	
.....	
16	

15. A girl facing South East turns anti-clockwise through an angle of 135° . In which direction is she facing now?
16. Write 0.35 as a fraction in its simplest form.
17. Find the square of 13.
18. A lesson which lasted for 40 minutes ended at 9:35a.m. When did it begin?
19. Simplify: $\frac{2}{3} (15k + 6m)$

20. Kawuki uses 4 half litre packets of milk every day. How many litres of milk does he use in a week?

Section B (60 Marks)

- 21(a) Change 1101_{two} to base ten. (2 marks)

- (b) What is the difference between the value of 3 and the value of 5 in 2,630,548? (3 marks)

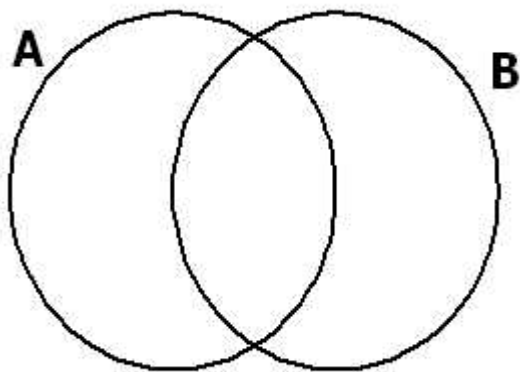
22. Given that set $A = \{\text{Prime numbers less than 12}\}$ and set $B = \{\text{Odd numbers between 4 and 14}\}$.

- (a) Write down the members of set A. (1 mark)

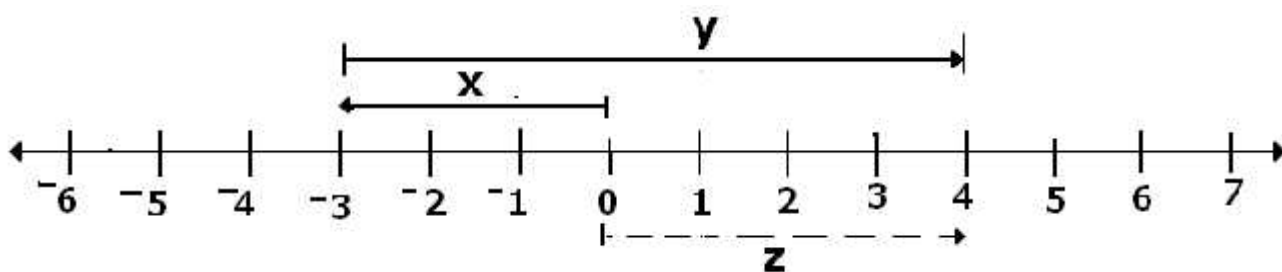
- (b) Write down the members of set B. (1 mark)

(c) Represent sets A and B on the Venn diagram below.

(3 marks)



23. Study the number line below and use it to answer the questions that follow.



(a) State the integers shown by:

(1 mark each)

(i) $X =$ _____ (ii) $y =$ _____ (iii.) $z =$ _____

(b) Write a mathematical statement for the above.

(1 mark)

24. A school hired 6 buses and 8 taxis to go to a tour. A bus carries 65 students and a taxi carries 14 students.

(a) How many students did the buses carry?

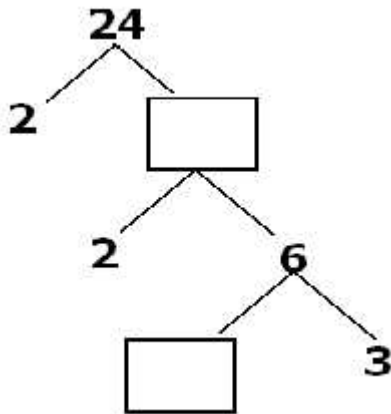
(2 marks)

(b) Find the number of students carried by the taxis.

(2 marks)

- (c) Find the total number of students who went out for the tour. (1 mark)

- 25(a) Fill in the missing numbers. (2 marks)



- (b) Find the Lowest Common Multiple of 18 and 12. (2 marks)

26. Zaharah bought the following items from the market:

2kg of meat at sh. 8500 per kg

$\frac{1}{2}$ kg of salt at sh. 1200 per kg

3 bars of soap at sh. 3500 per bar.

- (a) How much money did she spend altogether? (4 marks)

(b) If she remained with sh. 1900, how much money did she have at first? (1 mark)

27(a) Work out: $1.7 + 2.4 - 3.6$ (2 marks)

(b). What is $\frac{3}{5}$ of 350kg? (2 marks)

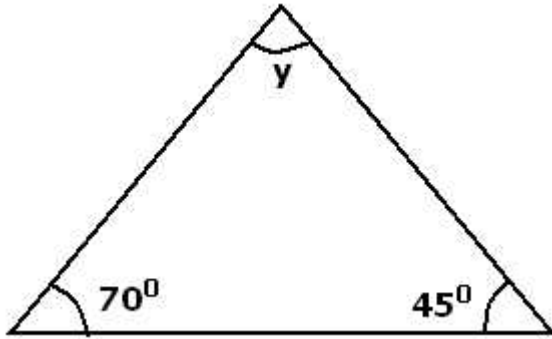
(c). Work out: $\frac{9}{10} \times 3\frac{1}{3}$ (2 marks)

28(a) If $a = 8$, $b = 6$ and $c = 2$, find the value of: $2a + bc$ (2 marks)

(b). Solve: $3(x + 5) = 21$ (3 marks)

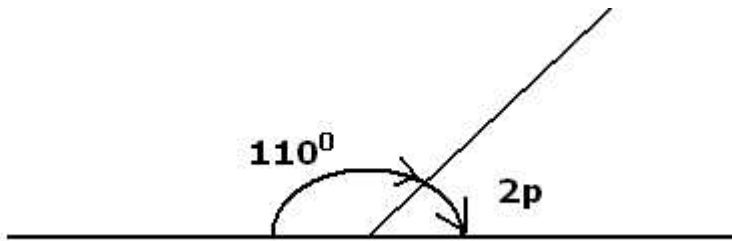
29(a) Calculate the size of angle y in the figure below.

(3 marks)



(b) In the figure below, find the value of p .

(3 marks)



30. A motorist covered 240km in $2\frac{2}{3}$ hours.

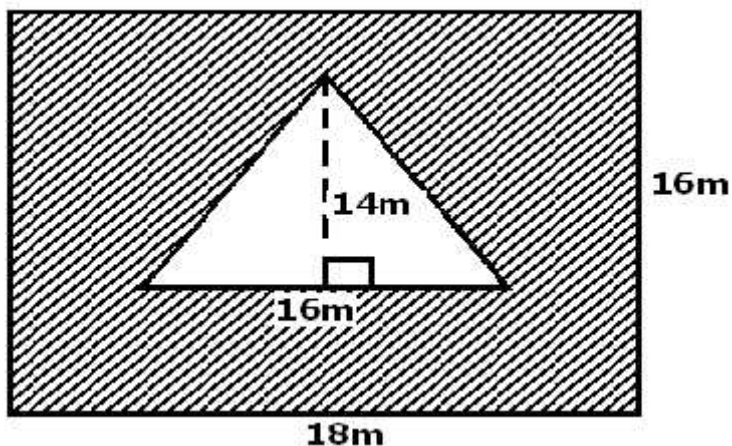
(a) What was the motorist's speed?

(2 marks)

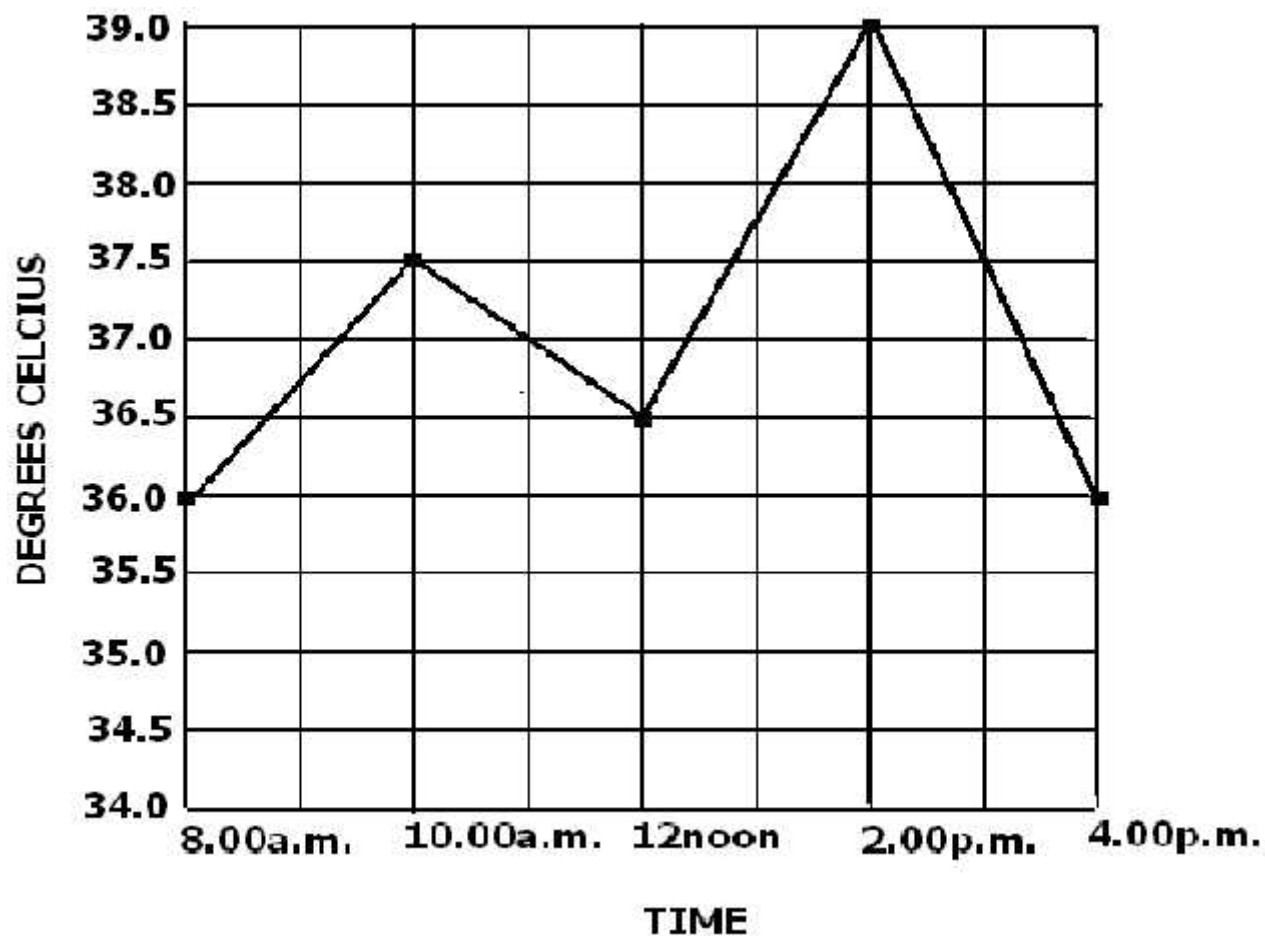
(b). He covered another journey at the same speed in 2 hours. How long was the journey?

(2 marks)

31. Find the area of the shaded part in the figure below. (5 marks)



32. The graph below shows a patient's temperature recorded at intervals of 2 hours from 8am to 4pm. Use it to answer the questions that follow.



- (a) At what time was the temperature the same? (2 marks)
- (b) What was the highest temperature? (1 mark)
- (c) At what time was the temperature 37.5°C ? (1 mark)
- (d) Calculate the patient's average temperature. (2 marks)