

TAIBAH INTERNATIONAL SCHOOL
P.7 HOLIDAY PACKAGE TERM ONE 2023
MATHEMATICS

Name_____ Stream_____

1. Add: $345 + 102$

2. Convert 17 base ten into binary base

3. Write XCIV in words

4. Find the range of the next two numbers 1, 3, 6, 10, _____, _____

5. Simplify: $-3 - -7$

6. Collect like terms: $8m - 7 - 3m + 12$

7. What number has been expanded to get $(1 \times 2 \times 2 \times 2) + (1 \times 2) + (1 \times 1)$?

8. Aaliyah arrived 35 minutes before the start of the Mathematics lesson.
If the lesson started 15 minutes later, for how long did she wait?

9. Multiply $101_{\text{two}} \times 11_{\text{two}}$

10. Work out $\frac{2}{5} + \frac{3}{7}$

11. The school library has 180 text books. If 20% of the textbooks are for Science, find the number of science textbooks in the library.

12. Given that $m = -5$ and $n = -4$, find the value of $2m - n$

13. Using a pair of compasses, a ruler and a well-sharpened pencil, construct an angle of 45°

14. Round off 57.987 to the nearest tenth.

15. A milkman sold 24 litres of milk using small bottles of 300ml. How many bottles of milk did he sell?

16. Find the square root of 1.44

17. Express 108 as a product of its prime factors

18. There are 1546 tomatoes in each box. How many tomatoes are contained in 25 similar boxes?

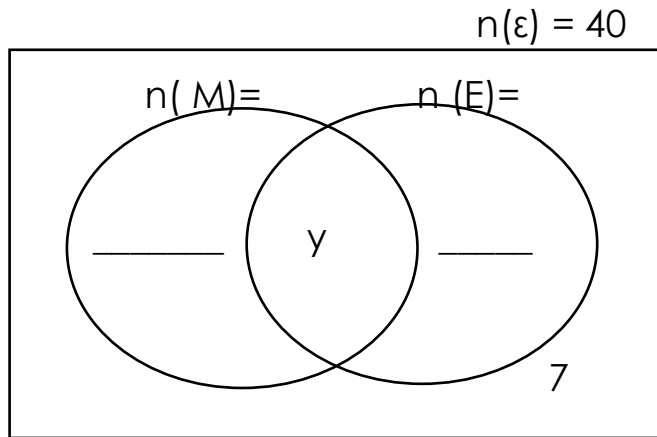
19. Edna deposited sh. 480,000 in ABSA bank at an interest rate of 10% p.a. How much interest did she get after 8 month?

20. Work out $2 - 5 = \underline{\hspace{2cm}} \pmod{7}$

SECTION B(60 MARKS)

21. In a class of 40 pupils, 25 like Math (M), 27 like English(E), y like both subjects while 7 like none of the two subjects.

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



b) Find the value of y (2 marks)

c. What is the probability of picking a pupil who likes one subject only as a class monitor? (2 mark)

22. If $23_k = 1011_{\text{two}}$, find the value of k

(2 marks)

b) Show 324_{five} on an abacus

(2 marks)

23a) The L.C.M of two numbers is 108 and their G.C.F is 6. If one of them is 24, find the other number.

(2 marks)

b) The sum of three consecutive counting numbers is 30.

Find the numbers.

(3marks)

24. Two boys Mundo and Sera were told to report to the head teacher's office at intervals of 30 minutes and 50 minutes respectively.

If they last reported to the head teacher's office together at 9:15a.m,

a) After how long will they report to the head teacher's office together again? (3 marks)

b) At what time will they meet in the head teacher's office together again? (2 marks)

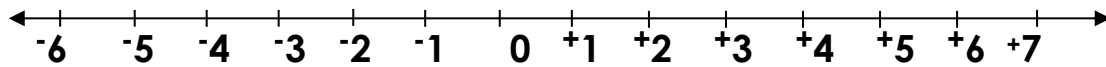
25. Tenda, Victor and Jasmine shared 72 apples in the ratio of 1:4:7 respectively.

a) How many apples did each get? (3 marks)

b) How many less apples did Tenda get Jasmine? (2 marks)

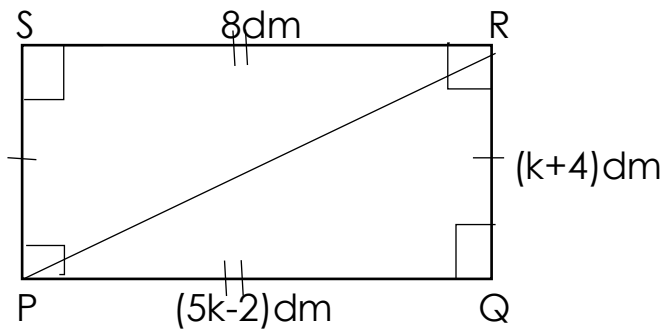
26a) Use a number line to work out $-3 - +7$

(3marks)



b) If today is Wednesday, What day of the week will it be 96 days from now? (2marks)

27. The figure below is a rectangle. Study it carefully and answer the questions that follow.



a) Calculate the value of k

(2 marks)

b) Find the perimeter of the rectangle.

(2 marks)

c) Find the length of diagonal PR



(2 marks)

28. Using a pair of compasses, a ruler and a pencil only, construct triangle NBS in which $NB = BS = NS = 6\text{cm}$. (4marks)

b) Measure angle NBS_____

(1 mark)

29a) Arrange $\frac{2}{3}$, $\frac{3}{4}$, $\frac{5}{6}$ and $\frac{7}{8}$ in descending order (2 marks)

b) Given that  represents 9600 eggs. Find the number of eggs represented by  ? (2marks)

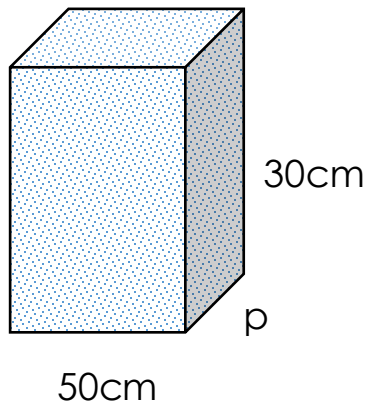
30. Given the numeral 6947.83;

a) Expand the numeral using values (1 marks)

b) Express the numeral above in scientific notation (1 marks)

c) Find the sum of the values of 9 and 3 in the given numeral (2 marks)

31. The figure below shows a cuboidal tank. Use it answer the questions that follow.



a) If the volume of the above tank is 60000cm^3 .

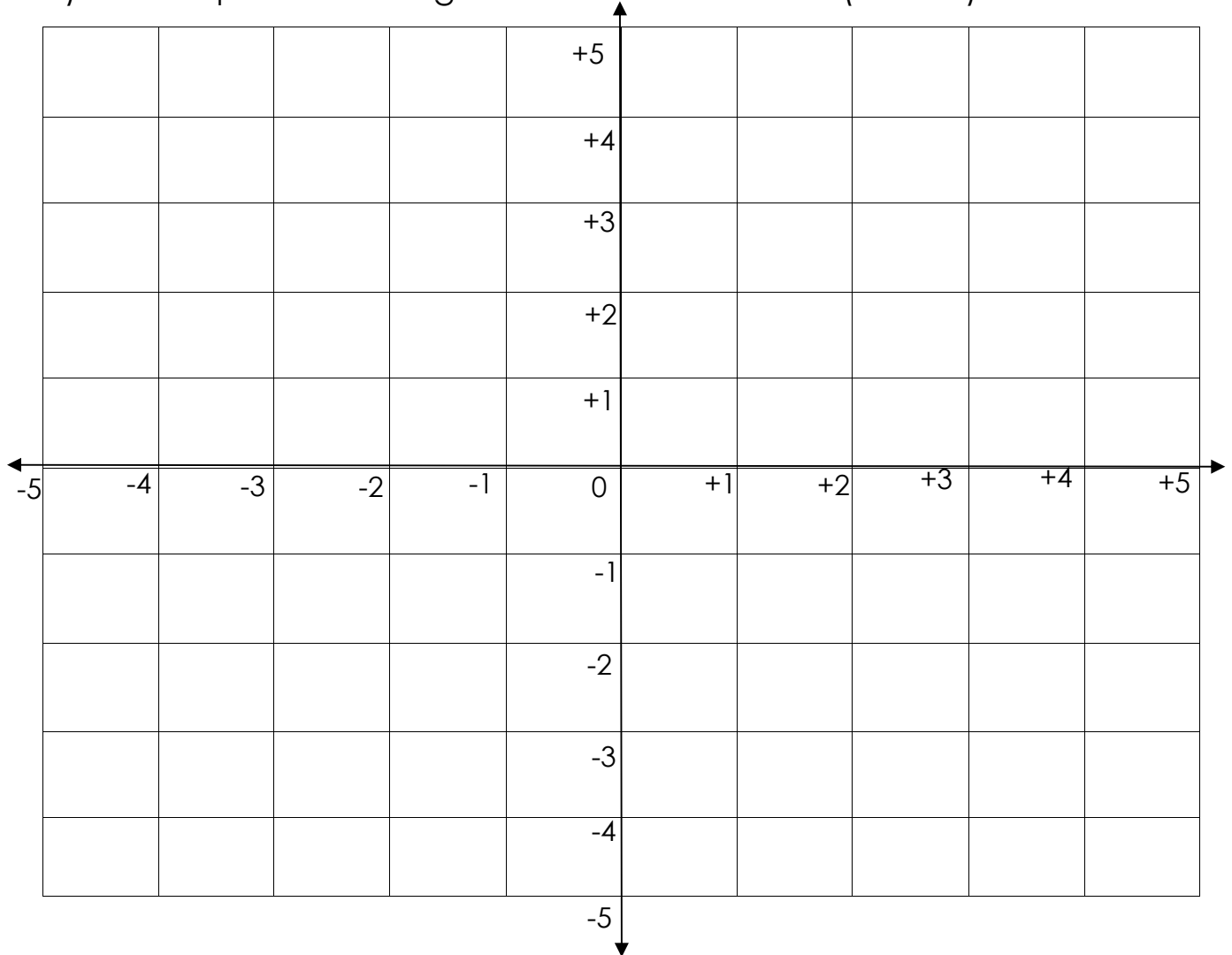
(I) Calculate the value of p (2 marks)

(II) Work out its capacity (2 marks)

(III) How much water can the tank hold when it is $\frac{3}{4}$ full? (1 mark)

32. Given points A(+3,+3), B(-4,+3), C(-4,-2) and D(+3,-2)

b) Plot the points on the grid below (4marks)



b) Join A to B, B to C, C to D and D to A (1 mark)

c) Find the area of the figure formed. (1 mark)