INDIAN SCHOOL SALALAH

SECOND TERM EXAMINATION, 2017-18

MATHEMATICS

MAX.MARKS: 80

CLASS: VI TIME: $2\frac{1}{2}$ HOURS

GENERAL INSTRUCTIONS

i. All questions are compulsory.

ii. This question paper consists of 30 questions divided into 4 sections. Section A contains 6 questions of 1 mark each. Section B contains 6 questions of 2 marks each. Section C contains 10 questions of 3 marks each. Section D contains 8 questions of 4 marks each.

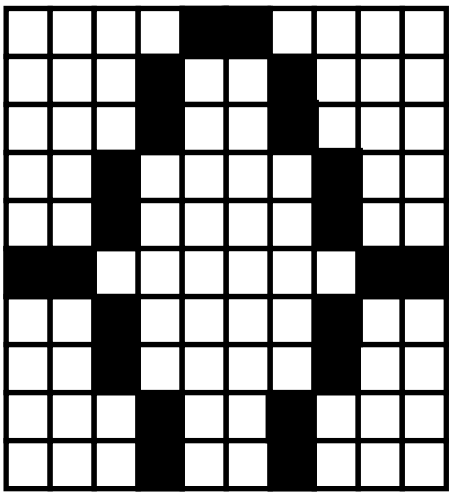
iii. Internal choices have been provided in Section C and Section D. You have to attempt only one of the choices in such questions.

SECTION A (1 Mark each)

1. What fraction of an hour is 20 minutes?
2. For the following statements, write **True** or **False**.
   (i) **(- 61)** is greater than (**-16)**
   (ii) Greatest negative integer is (-1)
3. Fill in the box.
   $\frac{10}{13} - \square = \frac{6}{13}$
4. There are 15 apples and 20 oranges in a basket. Find the ratio of the number of apples to the number of oranges.
5. Match the following.

(i) Acute angle	(a) More than one-fourth of a revolution
(ii) Straight angle	(b) Half of a revolution
	(c) Less than one-fourth of a revolution

6. A part of the grid is shaded to get a design in the following figure. Write the shaded portion as a decimal number.



SECTION B (2 Marks each)

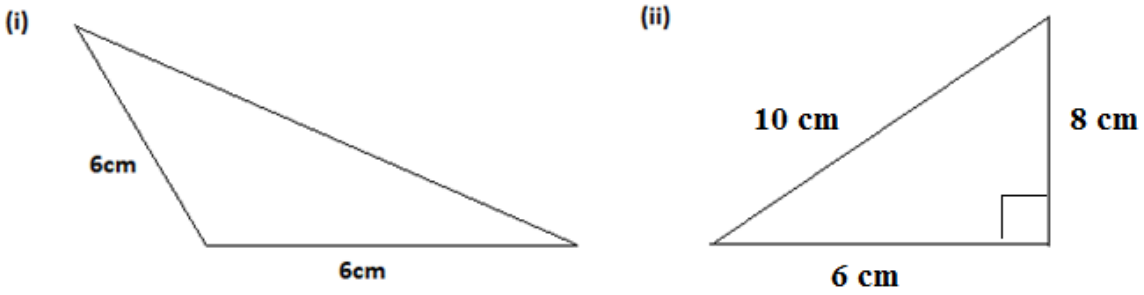
7. Find the equivalent fraction of $\frac{7}{10}$ having

   (i) denominator **80**

   (ii) numerator **28**

8. Neha bought a bottle of sauce for **Rs 72.80**. She paid **Rs 100** to the shopkeeper. How much money did she get back from shopkeeper?

9. Name each of the following triangles in two different ways.



10. Check whether 27, 12, 99 and 44 are in proportion or not?

11. (i) What is the HCF of **two consecutive odd numbers**?

    (i) Find the HCF of 45 and 54.

12. The following are the favorite colours of 30 students. Make a table and enter the data using tally marks.

Blue	Red	Red	Yellow	Green
Green	Red	Blue	Blue	Red
Red	Yellow	Green	Blue	Yellow
Green	Red	Red	Blue	Blue
Blue	Red	Blue	Yellow	Blue
Red	Blue	Green	Green	Blue

SECTION C (3 Marks each)

13. (i) **Where will the hands of a clock stop** if it starts at 4 and makes $\frac{1}{4}$ revolution, clockwise?

    (ii) **What part of a revolution** have you turned through if you stand facing North and turn clockwise to face West?

    (iii) Find **the number of right angles** turned through by the hour hand of a clock when it goes from 5 to 11.

14. Compare the fractions and put appropriate signs. ('<', '>' or '=') in the blank.

    i) $\frac{11}{13}$ _____ $\frac{9}{13}$

    ii) $\frac{5}{6}$ _____ $\frac{5}{4}$

    iii) $\frac{2}{3}$ _____ $\frac{8}{12}$

15. If **Rs 140** is divided between Arushi and Arpitha in the **ratio 4:3**, find how much Arushi and Arpitha will get?

16. Write each of the following as decimals.

(i) $\frac{1}{4}$ (ii) three tens and five-tenths (iii)600 + 30 + 1 + $\frac{8}{100}$

17. The following pictograph shows the number of different types of books Abhay has.

Type of books	Number of books  - 1 book
Adventure	
Biography	
Science fiction	
Sports	

Observe the pictograph and answer the following questions.

(i) How many biography books are there with Abhay?

(ii) Which is more in number – **Science fiction or Adventure books**?

(iii) Which type of book does Abhay has **maximum** in number?

18. From a roll of **60m** long cloth, Raju cut **37m 55cm** to stitch cushion covers and**12m 60cm** to stitch pillow covers. Find the length of cloth remaining in the roll.

OR

Answer the following questions.

(i) Which is greater?

(a) **42.01** or **24.958**

(b) **7.053** or **7.350**

(ii) Find the sum

152.8 + 34 + 1.001

(iii) Find the value

50.988 – 26.25

19. Draw a line segment of length **7 cm** and construct its perpendicular bisector.(Using ruler and compass only)

OR

Draw a line segment, **AB** of length 8 cm. Mark any point **M** on it. **Through M**, draw a perpendicular to **AB**. (Using ruler and compass only)

20. **Find the followings**:

(i) 0 + (-11) (ii) (-38) + 85 (iii) (-19) – (102)

OR

Answer the following questions.

(i) Find **(-52) – (500)**

(ii) **Using number line**, write the integer which is **4 more than -3**

21. In a morning walk, three persons step off together their steps measure **84 cm**, **96cm** and **100cm** respectively. What is the **minimum distance** each should walk so that all can cover the same distance in complete steps?

OR

Find the **smallest 3-digit number** which is **exactly divisible by 6, 8 and 18**.

22. Draw a circle of radius 5cm and any two of its diameters. If you join the ends of these diameters, what is the figure obtained?

SECTION D (4 Marks each)

23. Solve:

(i) $\frac{9}{11} - \frac{3}{11}$ (ii) $\frac{4}{5} + \frac{1}{2}$ (iii) $3 - \frac{7}{8}$

24. Find the ratio of the following.

(i) 40 minutes to 2 hours (ii) 750 g to 900 g (iii) 25 paise to Rs 5

25. The favorite pets of children are shown in the following table.

Pet	Number of children
Dog	40
Rabbit	25
Cat	45
Birds	50
Fish	30

(i) Draw a bar graph to illustrate the above data taking scale of **1 unit length = 5 children**.

(ii) Which pet is preferred by maximum number of children?

26. Construct the following angles, using ruler and compass only.

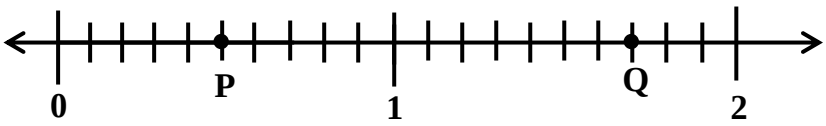
(i) **30°** (ii) **90°**

27. (i) Write **213.45** in words.

(ii) Write **0.15** as fractions in lowest terms.

(iii) Express **475m** as **km** using decimals.

(iv) Write the decimal number represented by the points **P** and **Q** on the given number line.



28. For Akhil's birthday party, his mother prepared sweets and milkshake. $\mathbf{1\frac{1}{2}}$ **litres** of milk was used for making sweets and $\mathbf{2\frac{3}{4}}$ **litres** of milk was used for making milkshake. Find the **total quantity of milk** used by her.

OR

It took $\mathbf{3\frac{1}{4}}$ **hours** for Manju to finish her maths assignment. The time taken by her to complete science assignment is $\mathbf{1\frac{1}{2}}$ **hours** less than the time taken by her to complete maths assignment. **Find the time taken by her to complete the science assignment.**

29. Kavya purchases **3 lunch boxes for Rs 525**. Raj purchases **4 lunch boxes for Rs 540**. Find out who got the lunch boxes for a cheaper rate.

OR

A carpenter earns **Rs 2975 in a week**.

(i) Find his earnings in 12 days.

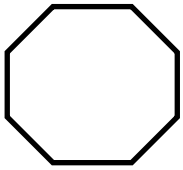
(ii) How many days he has to work to earn **Rs 8500**?

30. <u>Answer the following questions.</u>

(i) Give reason for the following.

A square can be thought of as a special rhombus.

(ii) **Name the polygon** given below.



(iii) How many **faces** and **edges** does a cuboid have?

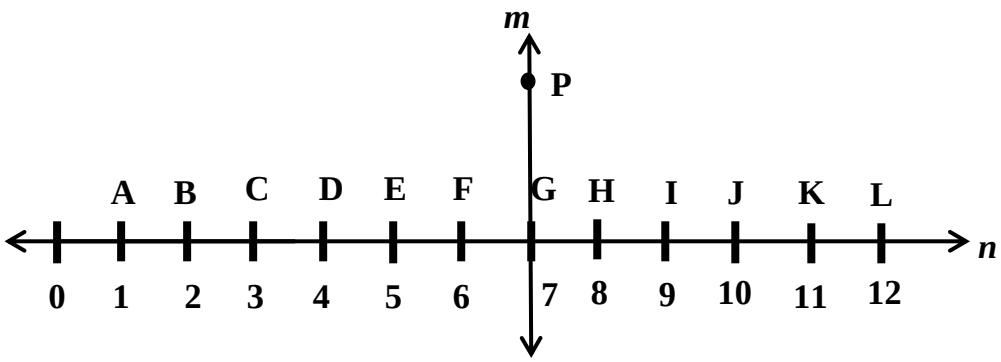
(iv) Name a quadrilateral whose **diagonals are perpendicular bisectors to one another**.

OR

<u>Answer the following questions.</u>

(a) Write the name of the polygon which **does not have a diagonal**.

(b) Study the diagram. The line ***m*** is perpendicular to line ***n***.



(i) Is **BG** = **GK**?

(ii) Is **D** the midpoint of **AG**?

(iii) Name **any two line segments** for which **PG** is the **perpendicular bisector.**

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