

**INDIAN SCHOOL SALALAH**  
**SECOND TERM EXAMINATION, 2017-2018**

**CLASS:VI**

**MATHEMATICS**

**MAX. MARKS: 80**

**TIME:  $2\frac{1}{2}$  HOURS**

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**GENERAL INSTRUCTIONS:**

- a) *All questions are compulsory.*
  - b) *The question paper consists of 30 questions divided into four sections – A, B, C and D*
  - c) *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 and Section D contains 8 questions of 4 marks each.*
  - d) *There is no overall choice. However, internal choice have been provided in 4 questions of 3 marks each and three questions of 4 marks each.*
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**SECTION A**

1. Where will the hand of a clock stop if it starts at **7** and makes  $\frac{1}{2}$  of a revolution?
2. Name the quadrilateral which has equal diagonals that are perpendicular to each other?
3. Reduce  $\frac{42}{49}$  to its lowest form.
4. Represent **1.5** on the number line.
5. Write the **greatest negative integer**.
6. The cost of **6** exercise books is **Rs.90**. Find the cost of **1** exercise book.

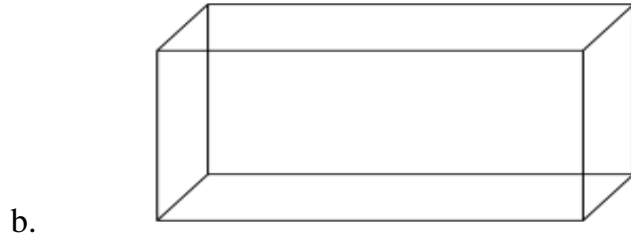
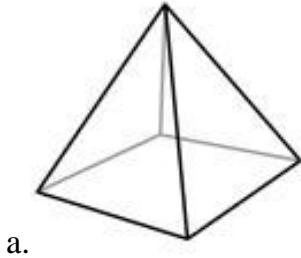
**SECTION B**

7. Determine if the following are in proportion.(show the steps)  
**33, 121, 3, 11.**
8. Pradeep and Suresh bought a bat for **Rs250**. Pradeep paid **Rs175** and Suresh paid the rest.  
What is the ratio of the amount Pradeep paid to the amount Suresh paid?

9. Fill in the blanks:

- a. **21 mm** = \_\_\_\_\_ **cm**
- b. **8 km 82 m** = \_\_\_\_\_ **km**
- c. **4092 g** = \_\_\_\_\_ **kg**
- d. **The sum of 0.3 and 0.33** is \_\_\_\_\_

10. Write the **name** of each shape and its **number of faces**.



11. Find a.  $\frac{4}{15} + \frac{7}{15}$

b.  $1 - \frac{3}{7}$

12. In a survey of 20 families, each family is found to have the following number of children

1	2	2	3	2	3	3	2	1	1
2	2	2	2	3	1	3	1	1	2

Arrange the number of children in a table using tally marks.

### SECTION C

13. a. Name the type of the triangle:

Triangle PQR such that **PQ = QR = PR = 7 cm**.

b. Draw a rough sketch of a pentagon and draw its diagonals.

14. Draw a line segment PQ. Take any point R not on it. Through R, draw a perpendicular to PQ. (Use ruler and compasses only)

15. Construct with ruler and compasses, angles of following measures :

a.  $60^\circ$

b.  $45^\circ$

16. a. Change  $\frac{4}{5}$  to decimal.

b. Amit bought a Maths book for **Rs 45.75** and a geometry box for **Rs78**. What is the total amount spent by him?

17. a. Fill in the blanks by  $<$ ,  $>$  or  $=$  to make the following statement true.

$$(-15) + (-25) \quad \underline{\hspace{2cm}} \quad (-25) - 15$$

b. Find the **predecessor of (-100)**.

18. a. Give two equivalent ratios of **6 : 4**

b. Find the ratio of **18 mm to 30 mm**.

c. Find the ratio of **45 to 15**.

**OR**

Present age of father is **42** years and that of his son is **14** years. Find the ratio of:

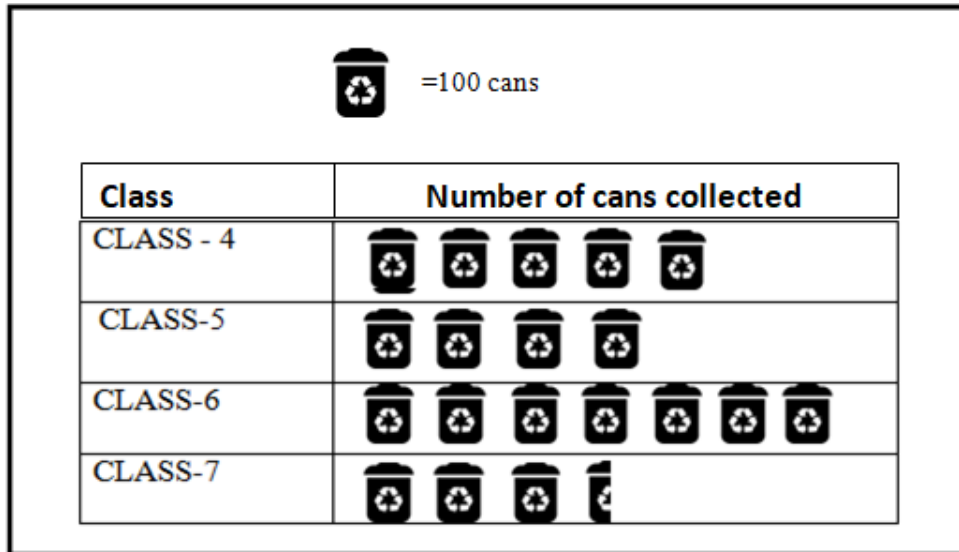
i) Present age of father to present age of son.

ii) Age of father to the age of son, when **son was 12 years** old.

iii) Age of father to the age of **son after 10 years**.

19. Rahim, Ravinder and Rohit bought **8.5 litres, 7.25 litres and 9.4 litres** of milk respectively from a milk booth. How much milk did they buy in all? If there was **30 litres** of milk in the booth find the quantity of milk left?

20. Students of class 4 to 7 of a school have collected cans to donate them for a recycling centre. Study the pictograph and answer the questions



- How many cans were collected by 7<sup>th</sup> class students?
  - How many more cans were collected by class 4 students than class 5?
  - Which class has collected the **maximum** number of cans?
  - Which class has collected **least** number of cans?
  - What **value** is displayed by these students?
21. a. Arrange the following fractions in **descending order**:

$$\frac{7}{15}, \frac{7}{8}, \frac{7}{20}, \frac{7}{10}$$

- b. Compare the fractions  $\frac{3}{4}$  and  $\frac{5}{12}$

**OR**

- Subtract  $\frac{4}{9}$  from 5.
  - What fraction of a day is 7 hours?
22. Find the least number which when divided by 15, 25 and 35 leaves a **remainder 5** in each case.

**OR**

Two tankers can hold **1020 litres and 1190** litres of oil respectively. Find the largest capacity of a container which can be used to fill these tankers in exact number of times.

## SECTION D

23. Draw a circle of radius **4** cm. Draw two of its chords. Construct the perpendicular bisector of these chords. Where do they meet?

**OR**

Draw a line segment of **12** cm. Using compasses, divide it into four equal parts. Verify by actual measurement.

24. Which car has more speed – the **car A covering 240 km in 5 hours** or the **car B covering 180 km in 4 hours**?(show the steps)

**Write the importance of wearing seat belt in the car.** (One point)

25. a. Write **3.25** as fraction in lowest term.

b. Express  **$200 + 40 + 7 + \frac{1}{10} + \frac{5}{1000}$**  as a decimal.

c. Write one hundred fifteen point zero zero one in decimal notation and in expanded form.

**OR**

i) Subtract **23.49** from **78.37**

ii) Write the following decimals in ascending order:

**24.62, 34.14, 13.06, and 29.41**

iii) Between which two whole numbers on the number line **0.8** lie? Which whole number is nearer to the given number?

26. A prize of Rs**1080** is divided among two persons Raju and Hari in the ratio **3:5**. Find the share of each one of them in the prize money.

27. Evaluate :  $4\frac{1}{6} - 3\frac{2}{9}$

28. My elder sister divided a watermelon into **16** parts. I ate **7** out of them. My friend ate **4**.What fraction of watermelon did we eat together? How much more of the watermelon did I eat than my friend? What part of the watermelon is left?

**OR**

Rajat won **7 out of 10** matches that he played and Karan won **8 out of 12** matches that he played. Who has a better winning record? (Show the steps)

29. a. How many degrees are there in a complete angle?
- b. All the sides of an isosceles triangle are equal. Write True or False. If false correct the statement and write.
- c. If A, B, C are three points on a line such that **AB = 5 cm, BC = 3 cm and AC=8 cm**, which one of them lies between the other two?
- d. What is the angle name for one –fourth revolution?
30. The following table shows the number of books issued in a class library on six days of a week

DAY	NUMBER OF BOOKS ISSUED
Monday	50
Tuesday	20
Wednesday	40
Thursday	35
Friday	25
Saturday	60

Draw bar graph for the above data.

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