DELHI PUBLIC SCHOOL JAMMU
REVISION SHEET OF CYCLE TEST-II
SESSION (2019-2020)

TOPICS: INTEGERS, MENSURATION, ALGEBRA, RATIO AND PROPORTION

Class: VI **Subject: Mathematics**

General Instructions:

- The question paper consists of 4 sections
  Q1 to Q12 of Section-A carry 1 mark each
  Q13 to Q16 of Section-B carry 2 marks each
  Q17 to Q22 of Section-C carry 3 marks each
  Q23 to Q25 of Section-C carry 4 marks each
- Internal choices provided with Q. No. 10, 13 and 19. Attempt any one from the given choices.
- Use of calculator is not permitted

SECTION-A

Q1. The greatest integer lying between -20 and -25 is

a) -23 b) -21 c) -18 d) -24

Q2. The successor of -50 is

a) -49 b) -51 c) -52 d) -48

Q3. If each side of a regular quadrilateral is 'a' then its perimeter is

a) 5a b) 6a c) 4a d) a

Q4. Which of the following is an equation?

a) 8 + 1 = 9 b) x – 1 c) x – 1 = 0 d) x + 1 > 0

Q5. The expression obtained when x is multiplied by 2 and then subtracted from 3 is

a) 2x – 3 b) 2x + 3 c) 3 - 2x d) 3x – 2

Q6. A man's monthly income is ₹1500. He saves ₹250. The ratio of his saving to his income is

a) 1 : 6 b) 25 : 15 c) 5 : 3 d) 6 : 1

Q7. - 3 + 3 = _____.

Q8. The total length of the boundary of a closed figure is called _____.

Q9. The first term of the ratio is called _____.

Q10. Find the perimeter of a regular hexagon with side 5cm.

Or

Find the area of a square with side 7cm.

Q11. Write the rule which gives the number of matchsticks required to make a pattern of 

Q12. There are 15 blue pens and 18 black pens in a packet. Find the ratio of number of blue pens to the number of black pens.

SECTION-B

Q13. Simplify: 14 – (-19) + 7 – (-13)

Or

Represent (-6) + 9 on a number line.

Q14. Find the side of a square lawn whose perimeter is 30 sq.m.

Q15. Write the statement form of:

a) 5 + 3x b) 2x ÷ 3

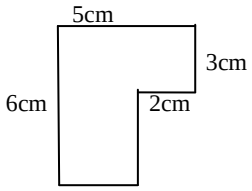
Q16. Find the ratio of

a) 200 pa to ₹5 b) 4 litres to 250 ml

SECTION-C

Q17. The sum of two integers is -45 of one of them is 20, find the other integer.

Q18. Find the area of the given figure by splitting it into rectangles.



Q19. Priya's age is x years. Write an expression for:

i) her age after 8 years

ii) her age 3 years ago

iii) her sister's age who is twice Priya's age

Or

Change the following statements using expressions into statements in ordinary language.

a) The cost of a toffee is ₹ r. The cost of a chocolate is ₹ 10r.

b) Salim scores s runs and Nalim scores (s + 15) runs.

c) Rohan is x years old. His uncle is 2x – 3 years old.

Q20. The present age of mother is 45 year and her daughter is 20 years. Find the ratio of:

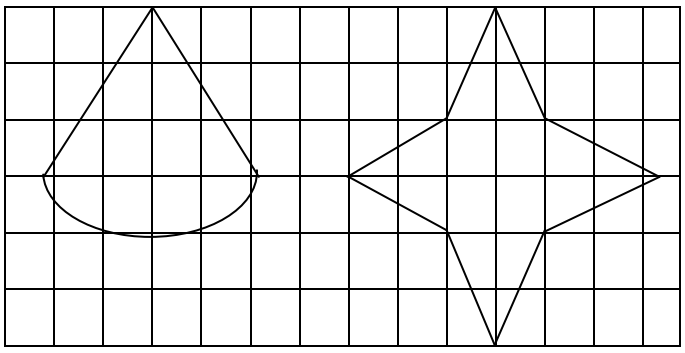
a) present age of mother to the present age of daughter.

b) age of mother to the age of daughter after 5 years.

c) age of mother to the age of daughter before 10 years.

Q21. A car covers 195 km in 3 hours while a train covers 650 km in 5 hours. Find the ratio of the speed of the car to the speed of the train.

Q22. Find the area of the given figures. (area of each square = 1 cm^2)



SECTION-D

Q23. A room is 14m 50cm long and 6m 80cm wide. Find the cost of carpeting it at the rate of `60 per square meter.

Q24. Solve each of the following equations by trial and errors method.

i) $x - 4 = 3$

ii) $3y = 18$

Q25. Divide 30 stamps between Malti and Anjali in the ratio of their ages. Malti is 12 years old and Anjal is 8 years old, find the number of stamps each one of them get.