

K V RAILWAY COLONY KHARAGPUR

WINTER BREAK HOME WORK (2022-23)

SUBJECT – MATHEMATICS

CLASS – VI

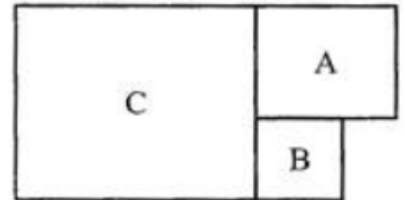
Solve the following Questions:

Q1. The length and the breadth of, School Playground are 400 m and 250 m respectively. What is the cost of the land at Rs. 500 per square metre?






Q 2. The perimeter of two squares are 16 cm, 12 cm. Find the perimeter of a square whose area is equal to the sum of the areas of first two squares.

Q 3. The area of square A is 25 sq. cm. The perimeter of square B is 12 cm. What is the area and perimeter square C?

Q 4.



Direction: A survey was conducted in a certain school to find out the popular school subjects among the students of classes VI to VIII. Based on this information, consider the pictograph shown below and answer the following questions.

Subjects	Number of student
Hindi	 = 40 students
Social science	
English	
Mathematics	
Science	

(i) Which subject is most popular among the student?

(ii) How many students like mathematics?

(iii) Find the total number of students who like subjects other than Hindi and Social studies.

Q5. Choose the decimal (s) from the brackets which is (are) not equivalent to the given decimals:

(i) 0.8 (0.80, 0.85, 0.800, 0.08)

(ii) 25.1 (25.01, 25.10, 25.100, 25.001)

(iii) 45.05 (45.050, 45.005, 45.500, 45.0500)

Q 6. Gopal travelled 125.5 km by bus, 14.25 km by pony and the rest of distance to Kedarnath on foot. If he covered a total distance of 150 km, how much did he travel on foot?

Revise chapter 11 & 12 (Exercise-12.1) from NCERT Text Book

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CLASS – VII

Solve the following Questions:

Q1. Mini purchased a dozen handkerchiefs for Rs.60 and sold them for Rs.84 whereas Trishika purchased a dozen handkerchiefs for Rs.90 and sold them for Rs.150. Whose profit percentage is more and by how much?

Q2. In an examination one should get 36% of the maximum marks to pass. A student obtains 113 marks and is declared fail by 85 marks. Find the maximum marks.

Q 3. How can the rational numbers $11/15$, $-11/12$, $-4/9$ and $7/12$ be written in ascending order?

Q 4. Solve the following:

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

5. From a circular sheet of radius 4 cm, a circle of radius 3 cm is removed. Find the area of the remaining sheet. (Take $\pi = 3.14$)

6. The minute hand of a circular clock is 15 cm long. How far does the tip of the minute hand move in 1 hour. (Take $\pi = 3.14$)

7. In $\triangle PQR$, $PR = 8$ cm, $QR = 4$ cm and $PL = 5$ cm . Find: (i) the area of the $\triangle PQR$ (ii) QM

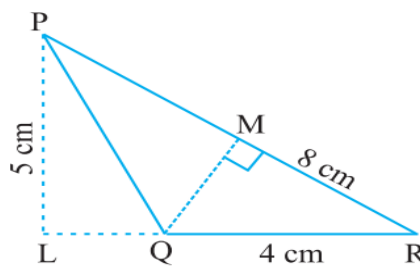


Fig 11.22

8. Simplify the expression $x + 7 + 4(x - 5)$ and find the value if x is equal to 2

9. From the sum of $3x - y + 11$ and $-y - 11$, subtract $3x - y - 11$.

10. What should be taken away from $3x^2 - 4y^2 + 5xy + 20$ to obtain $-x^2 - y^2 + 6xy + 20$?

- Revise Exercise 13.1

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SUBJECT – MATHEMATICS

CLASS – VIII

Solve the following Questions:

1. Simplify: $(1.5x - 4y)(1.5x + 4y + 3) - 4.5x + 12y$
2. Find the product $(p^2 - q^2)(2p + q)$
3. Two cylinders of same volume have their radii in the ratio $\sqrt{3}: 1$. What will be the ratio of their height?
4. Water is pouring into a cuboidal reservoir at the rate of 60 litres per minute. If the volume of reservoir is $108 m^3$, find the number of hours it will take to fill the reservoir.
5. A 5 m 60 cm high vertical pole casts a shadow 3 m 20 cm long. Find at the same time (i) the length of the shadow cast by another pole 10 m 50 cm high (ii) the height of a pole which casts a shadow 5m long.

*** Revise chapter 9,11,12 & 13 from NCERT Textbook.**

**** Solve Question Paper of Periodic Test -2.**