

Class 8th- Practice Sheet

[Students can solve these questions in any old copy. The work has to be brought to school for discussion when the school reopens]

Ques.1 Evaluate $(93)^3$.

Ques.2 Kareem's car covers a distance of 17.17 km in 1 litre of petrol. How much distance will it cover in 17.6 litres of petrol?

Ques.3 Convert the units $755 \text{ g} = \underline{\hspace{2cm}}$ kg.

Ques.4 The product of 1.943 and 10000 is $\underline{\hspace{2cm}}$

Ques.5 By what number should $\frac{5}{56}$ be divided to get $\frac{136}{49}$?

Ques.6 Archana gave $\frac{51}{74}$ of a basket of pears to Ismail. What fraction of pears is left in the basket?

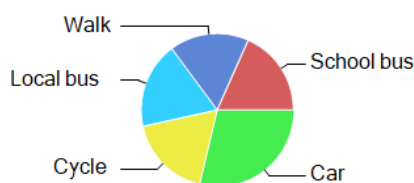
Ques.7 Write the fraction $6\frac{7}{9}$ as an improper fraction.

Ques.8 While climbing a rope, Divya has covered $\frac{3}{7}$ m of the total height whereas Vandita has covered only $\frac{5}{21}$ m. How much lesser height Vandita has covered?

Ques.9 Sita ran 3 km while Sulekha ran half of the distance Sita ran and Aditya ran $\frac{1}{7}$ of the distance of Sulekha ran. Shilpa ran $\frac{1}{4}$ of what Aditya ran. What part of the distance did Shilpa run?

Ques.10 If y is the reciprocal of x, then what will be the reciprocal of y^2 in terms of x?

Ques.11 A survey was done at Excel school to find the modes of transport used by the students to reach the school. The result of the survey is shown in the circle chart below



What is the most preferred mode of transport for coming to the school?

Ques.12 14 Find the standard form of the rational number $\frac{30}{36}$?

Ques.13 What is the result when $\frac{8}{27}$ is multiplied by the reciprocal of $\frac{40}{36}$

Ques.14 Solve: $\frac{15}{4} - \frac{5}{4} - \frac{1}{4}$

Ques.15 Divya is constructing a building. She finishes $\frac{3}{7}$ of the construction in $17\frac{1}{7}$ weeks. In how many days will she finish the constructing the building.

Ques.16 Find the average of the middle two rational numbers when $\frac{4}{2}, \frac{8}{30}, \frac{-8}{30}, \frac{-7}{5}$. Are arranged in ascending order

Ques.17 Examine whether the solution for given triangles being congruent is correct or not.

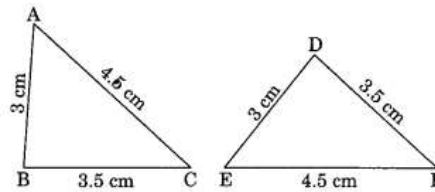
Solution:

Here,

$$AB = DE = 3 \text{ cm}$$

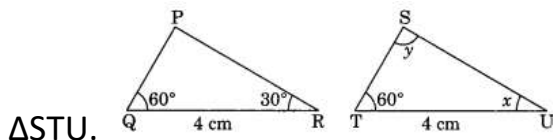
$$BC = DF = 3.5 \text{ cm}$$

$$AC = EF = 4.5 \text{ cm}$$



$\Delta ABC = \Delta EDF$ (By SSS rule)

Ques.18 In the given congruent triangles under ASA, find the value of x and y , $\Delta PQR =$



$\Delta STU.$

Ques.19 Subtract

$$(i) \frac{-5}{6} \text{ from } \frac{-7}{8} \quad (ii) 2\frac{1}{5} \text{ from } -3\frac{1}{6}$$

Ques.20 Find the product:

$$(i) 6\frac{2}{3} \times \left(-5\frac{1}{16}\right) \quad (ii) \left(-3\frac{1}{4}\right) \times \left(-2\frac{3}{4}\right)$$

Ques.21 If the cost of $4\frac{1}{2}$ litres of milk is ₹ $89\frac{1}{2}$, find the cost of 1 litre of milk.

Ques.22 The product of two rational numbers is $\frac{15}{56}$. If one of the numbers is $\frac{-5}{48}$, find the other.

Ques.23 Rajni had a certain amount of money in her purse. She spent ₹ $10\frac{1}{4}$ in the school canteen, bought a gift worth ₹ $25\frac{3}{48}$ and gave ₹ $16\frac{1}{2}$ to her friend. How much money she had to begin with?

Ques.24 One-third of a group of people are men. If the number of women is 200 more than the men, find the total number of people.

Ques.25 Find the ratio of: (a) 5 km to 400 m (b) 2 hours to 160 minutes

Ques.26 A machine costs ₹ 7500. Its value decreases by 5% every year due to usage. What will be its price after one year?

Ques.27 Write the following statements in the form of equations. (a) The sum of four times a number and 5 gives a number five times of it. (b) One-fourth of a number is 2 more than 5

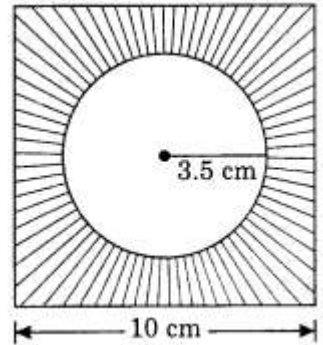
Ques.28 Solve the following equations: $3(y - 2) = 2(y - 1) - 3$

Ques.29 The length of a rectangle is twice its breadth. If its perimeter is 60 cm, find the length and the breadth of the rectangle.

Ques.30 Solve the following equations: $3(21 - 2a) = 12(a - 1) - 3a$

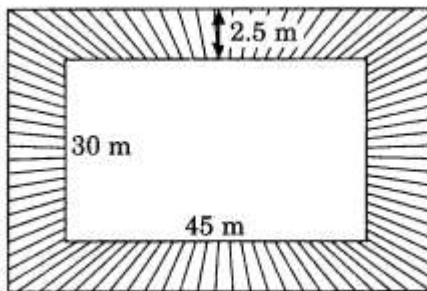
Ques.31 The perimeter of a rectangular field is 240 m. If its length is 90 m, find: (i) it's breadth (ii) it's area

Ques.32 The perimeter of a rectangular field is 240 m. If its length is 90 m, find: (i) it's breadth (ii) it's area.



Ques.33 In the given figure, find the area of the shaded portion.

Ques.34 A rectangle park is 45 m long and 30 m wide. A path 2.5 m wide is constructed outside the park. Find the area of the path.



Ques.35 Solve (i) $\frac{5^4 \times 7^5 \times 2^9}{8 \times 49 \times 5^2}$ (ii) $\frac{15^4 \times 18^3}{3^3 \times 5^2 \times 12^2}$
