

114. Find the value of a , if

(i) $8a = 35^2 - 27^2$

119. Factorise $p^4 + q^4 + p^2q^2$.

94. Carry out the following divisions

(i) $51x^3y^2z \div 17xyz$

(iii) $17ab^2c^3 \div (-abc^2)$

91. Factorise the following.

$$\text{(x)} \quad x^2 + 4x - 77$$

$$\text{(xii)} \quad p^2 - 13p - 30$$

74. A boy is cycling such that the wheels of the cycle are making 140 revolutions per hour. If the diameter of the wheel is 60 cm, calculate the speed in km/h with which the boy is cycling.

106. A housing society consisting of 5,500 people needs 100 L of water per person per day. The cylindrical supply tank is 7 m high and has a diameter 10 m. For how many days will the water in the tank last for the society?

- (1) A graph used to show comparison among categories. (2 words)
- (2) The point (0, 4) lies on the _____.
- (3) A line graph which is a whole unbroken line.
- (4) The point where the two axes meet.
- (5) _____ of a point are required to locate the point on a graph.
- (6) The x -axis and y -axis are at _____ angles to each other.
- (7) x -coordinate of a point.