

## NATURAL NUMBERS AND WHOLE NUMBERS

1. A factory makes 132 machines per day. How many machines will the factory make in March?
2. In one state, the number of bicycles sold in the year 2012-2013 was 7,43,000. In the year 2013-2014, the number of bicycles sold was 8,00,100. In which year were more bicycles sold and how many more?
3. a) How many thousands make a million?  
b) How many lakhs make a crore?
4. The number of sheets of paper available for making notebooks is 75,000. Each sheet makes 8 pages of a notebook. Each notebook contains 200 pages. How many notebooks can be made from the paper available

## CLASS 7

## MATHEMATICS

1. If the length of the side of a square is doubled, what is the ratio of the areas of the original square to the area of the new square?
2. A car is traveling 75 kilometers per hour. How many meters does the car travel in one minute?
3. Each coin weighs 4.3 grams. How much do 9 coins weigh all together?
4. Ravi collected  $\frac{2}{3}$  of a bin of glass bottles to recycle. Mala collected 7 times as many bins as Ravi. How many bins of bottles did Mala collect?

## STD 8

## MATHEMATICS

1. The reciprocal of a negative rational number \_\_\_\_\_

2. If a property holds for rational numbers, will it also hold for integers? For whole numbers? Which will? Which will not?

3.

Verify that  $-(-x) = x$  for.

(i)  $x = \frac{11}{15}$  (ii)  $x = -\frac{13}{17}$

4.

Find the multiplicative inverse of the following.

(i) -13 (ii)  $\frac{-13}{19}$  (iii)  $\frac{1}{5}$  (iv)  $\frac{-5}{8} \times \frac{-3}{7}$  (v)  $-1 \times \frac{-2}{5}$  (vi) -1

5. Is zero a rational number? Can you write it in the form  $\frac{p}{q}$ , where p and q are integers and  $q \neq 0$ ?

6. State whether the following statements are true or false. Give reasons for your answers.

- (i) Every natural number is a whole number
- (ii) Every integer is a whole number
- (iii) Every rational number is a whole number

