

## Class - 6 chapter - 6 exercise 6.1

1. Write the following division as fractions:

(i)  $3 \div 7$

(ii)  $11 \div 78$

(iii)  $113 \div 128$

**Solution:-**

Divisions can be written in fractions as,

(i)  $3 \div 7 = 3/7$

(ii)  $11 \div 78 = 11/78$

(iii)  $113 \div 128 = 113/128$

2. Write the following fractions in words

(i)  $2/7$

(ii)  $3/10$

(iii)  $15/28$

**Solution:-**

(i)  $2/7 =$  Two – Seventh

(ii)  $3/10 =$  Three – Tenth

(iii)  $15/28 =$  Fifteen – Twenty eighth

3. Write the following fractions in number form:

(i) one – sixth

(ii) three – eleventh,

(iii) seven-fortieth

(iv) thirteen – one hundred twenty fifth

**Solution:-**

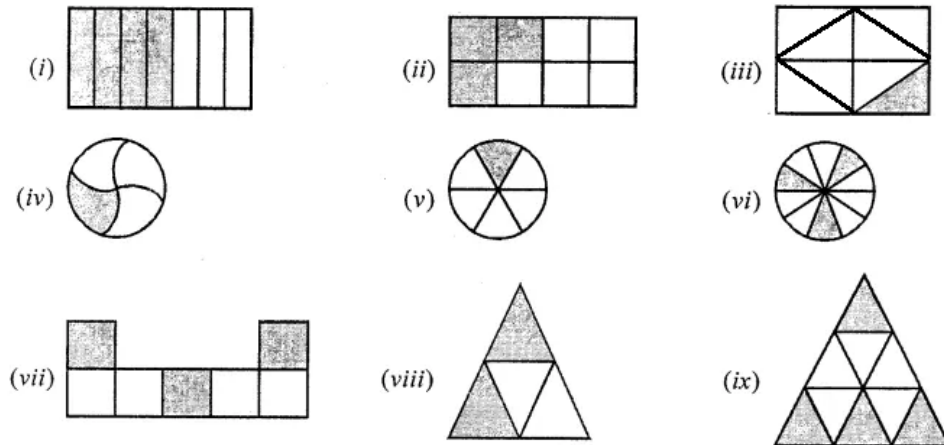
(i) one – sixth =  $1/6$

(ii) three – eleventh =  $3/11$

(iii) seven-fortieth =  $7/40$

(iv) thirteen – one hundred twenty fifth =  $13/125$

4. What fraction of each of the following is shaded part?



**Solution:-**

From the given figure,

(i) In figure (i) out of 7 equal parts 4 parts are shaded.

So, the fraction is  $4/7$

(ii) In figure (ii) out of 8 equal parts 3 parts are shaded.

So, the fraction is  $3/8$

(iii) In figure (iii) out of 8 equal parts 1 part are shaded.

So, the fraction is  $1/8$

(iv) In figure (iv) out of 4 equal parts 1 part are shaded.

So, the fraction is  $1/4$

(v) In figure (v) out of 6 equal parts 1 part are shaded.

So, the fraction is  $1/6$

(vi) In figure (vi) out of 10 equal parts 3 parts are shaded.

So, the fraction is  $\frac{3}{10}$

(vii) In figure (vii) out of 7 equal parts 3 parts are shaded.

So, the fraction is  $\frac{3}{7}$

(viii) In figure (viii) out of 2 equal parts 4 parts are shaded.

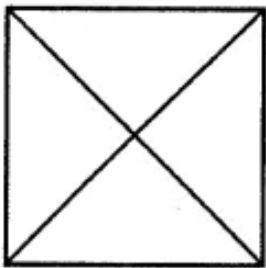
So, the fraction is  $\frac{2}{4}$

(ix) In figure (ix) out of 9 equal parts 4 parts are shaded.

So, the fraction is  $\frac{4}{9}$

5. Shade the parts of the following figures according to given according to given fractions.

(i)  $\frac{3}{4}$

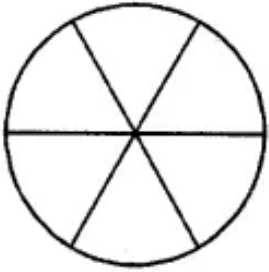


**Solution:-**

According to fraction, in figure out of 4 equal parts 3 parts are shaded.



(ii)  $\frac{1}{6}$

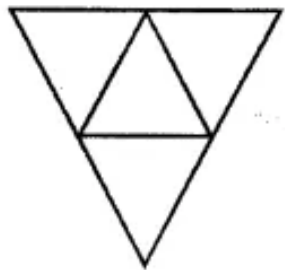


**Solution:-**

According to fraction, in figure out of 6 equal parts 1 part are shaded.



(iii)  $\frac{1}{4}$

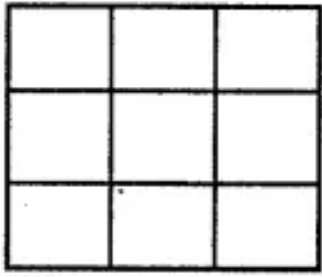


**Solution:-**

According to fraction, in figure out of 4 equal parts 1 part are shaded.

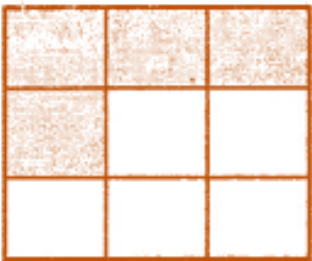


(iv)  $\frac{4}{5}$



**Solution:-**

According to fraction, in figure out of 9 equal parts 4 parts are shaded.



(v)  $\frac{1}{3}$

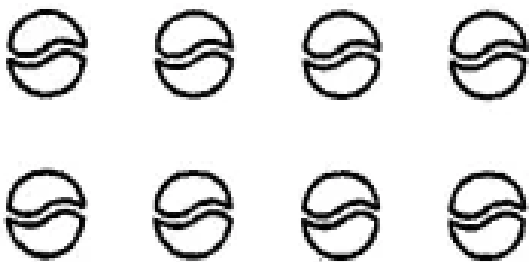


**Solution:-**

According to fraction, in figure out of 6 equal parts 1 part are shaded.



(vi)  $5/8$

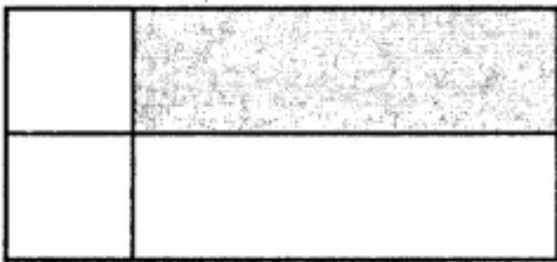


**Solution:-**

According to fraction, in figure out of 8 balls 5 balls are shaded.



6. In the adjoining figure, if we say that the shaded region is  $\frac{1}{4}$  of the whole region, then identify the error in it.



**Solution:-**

In the given figure, parts are not equally divided. So the given fraction is not correct.

7. Write the fraction in which

(i) numerator = 5 and denominator = 13

**Solution:-**

numerator = 5 and denominator = 13

$\frac{5}{13}$

(ii) denominator = 23 and numerator = 17

**Solution:-**

denominator = 23 and numerator = 17

$\frac{23}{17}$

Question 8.

Shabana has to stitch 35 dresses. So, ar she has stitched 21 dresses. What fraction of dresses has she stitched?

Solution:

Number of dresses she had to stiches = 35

Number of dresses she has finished = 21

$\therefore$  Fraction of dresses she has finished =  $\frac{21}{35} = \frac{3}{5}$

Question 9.

What fraction of a day is 8 hours ?

Solution:

Number of hours in a day = 24 hours

$\therefore$  Required fraction =  $\frac{8}{24}$

Question 10.

What fraction of an hour is 45 minutes ?

Solution:

An hour (1 hour) = 60 minutes

$\therefore$  Required fraction =  $\frac{45}{60}$



Question 11.

How many natural numbers are there from 87 to 97?

What fraction of them are prime numbers?

Solution:

The natural numbers from 87 to 97 are 87, 88, 89, 90, 91, 92, 93, 94, 95, 96 and 97. Total number of natural number = 11 Out of these, the prime numbers are 87 and 97

Total number of these prime numbers = 2

$\therefore$  Required fraction =  $\frac{2}{11}$