NCERT SOLUTIONS FOR CLASS 6 MATHS FRACTIONS EXERCISE 7.1

Exercise 7.1

Question 1:

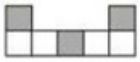
Write the fraction representing the shaded portion.

(i)

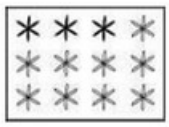
(ii)

(iii)

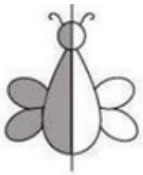
(iv)



(v)



(vi)



(x)

Answer:

(i) The given figure represents 2 shaded parts out of 4 equal parts.

Hence, $\frac{2}{4}$

(ii) The given figure represents 8 shaded parts out of 9 equal parts.

Hence, $\frac{8}{9}$

(iii) The given figure represents 4 shaded parts out of 8 equal parts.

Hence, $\frac{4}{8}$

(iv) The given figure represents 1 shaded part out of 4 equal parts.

Hence, $\frac{1}{4}$

(v) The given figure represents 3 shaded parts out of 7 equal parts.

Hence, $\frac{3}{7}$

(vi) The given figure represents 3 shaded parts out of 12 equal parts.

Hence, $\frac{3}{12}$

(vii) The given figure represents 10 shaded parts out of 10 equal parts.

Hence, $\frac{10}{10}$

(viii) The given figure represents 4 shaded parts out of 9 equal parts.

Hence, $\frac{4}{9}$

(ix) The given figure represents 4 shaded parts out of 8 equal parts.

Hence, $\frac{4}{8}$

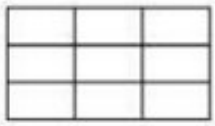
(x) The given figure represents 1 shaded part out of 2 equal parts.

Hence, $\frac{1}{2}$

Question 2:

Colour the part according to the given fraction.

(i) (ii) $\frac{1}{4}$ (iii) $\frac{1}{3}$

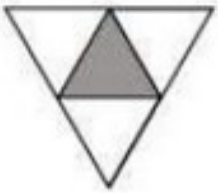


(iv) $\frac{3}{4}$ (v) $\frac{4}{9}$

Answer:

(i)

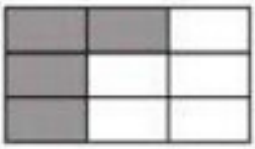
(ii)



(iii)

(iv)

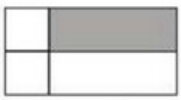
(v)



Question 3:

Identify the error if any.

This is $\frac{1}{2}$



This is $\frac{1}{4}$

This is $\frac{3}{4}$

Answer:

The given figures do not represent the fractions as here each shape is not divided in equal parts.

Question 4:

What fraction of a day is 8 hours?

Answer:

There are 24 hours in a day. Therefore, 8 hours of a day represent $\frac{8}{24}$.

Question 5:

What fraction of an hour is 40 minutes?

Answer:

There are 60 minutes in an hour. Therefore, 40 minutes of an hour represent $\frac{40}{60}$.

Question 6:

Arya, Abhimanyu, and Vivek shared lunch. Arya has brought two sandwiches, one made of vegetable and one of jam. The other two boys forgot to bring their lunch. Arya agreed to share his sandwiches so that each person will have an equal share of each sandwich.

(a) How can Arya divide his sandwiches so that each person has an equal share?

(b) What part of a sandwich will each boy receive?

Answer:

(a) Arya will divide each sandwich in three equal parts. Then, he will give one part of each sandwich to each one of them.

(b) Each boy will receive $\frac{1}{3}$ part of each sandwich.

Question 7:

Kanchan dyes dresses. She had to dye 30 dresses. She has so far finished 20 dresses. What fraction of dresses has she finished?

Answer:

Dress dyed so far = 20

Total dresses = 30

Fraction = $\frac{20}{30}=\frac{2}{3}$

Question 8:

Write the natural numbers from 2 to 12. What fraction of them are prime numbers?

Answer:

Natural numbers from 2 to 12 are 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, and 12.

Prime numbers among these are 2, 3, 5, 7, and 11.

Therefore, out of 11 numbers, 5 are prime numbers. It represents a fraction $\frac{5}{11}$.

Question 9:

Write the natural numbers from 102 to 113. What fraction of them are prime numbers?

Answer:

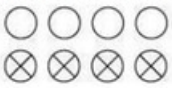
Natural numbers from 102 to 113 are 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113

Among these numbers, the prime numbers are 103, 107, 109, and 113.

Therefore, out of 12 numbers, 4 are prime numbers. It represents a fraction $\frac{4}{12}$.

Question 10:

What fractions of these circles have X's in them?



Answer:

Thereare 4 circles, out of 8, having X's in them. Therefore, it represents a fraction $\frac{4}{8}$.

Question 11:

Kristin received a CD player for her birthday. She bought 3 CDs and received 5 others as gifts. What fraction of her total CDs did she buy and what fraction did she receive as gifts?

Answer:

Total CDs Kristin had on her birthday = 3 + 5 = 8

Out of 8 CDs, she bought 3 CDs and also got 5 CDs as gifts. Therefore, she bought and received CDs as gifts in a fraction of $\frac{3}{8}$ and $\frac{5}{8}$ respectively.

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