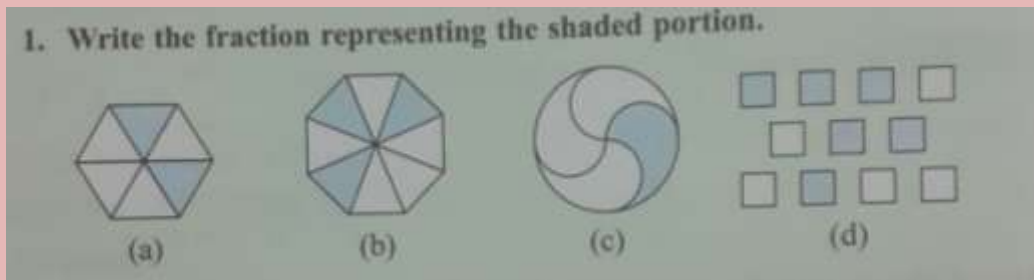


EXERCISE : 5.1

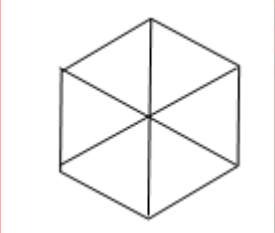
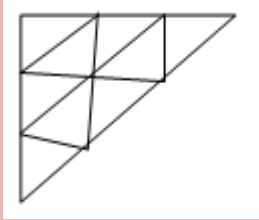
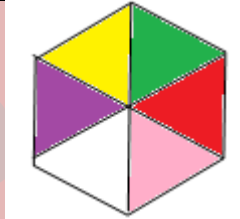
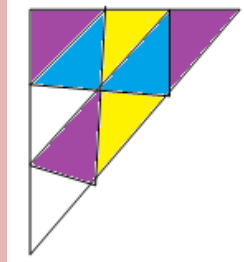
1. Write the fraction representing the shaded portion



Ans :

a. $\frac{2}{6}$ b. $\frac{3}{8}$ c. $\frac{1}{4}$ d. $\frac{6}{11}$

2. Shade the figures as instructed.

a. $\frac{5}{6}$		b. $\frac{7}{9}$	
Ans			

3. Write the fractions for the following ;

(a) two – fifth

Ans : $\frac{2}{5}$

(b) three – eighths

Ans : $\frac{3}{8}$

(c) five – sevenths

Ans : $\frac{5}{7}$

4. Tick the proper fractions.

$\frac{8}{3}$, $\frac{3}{4}$, $\frac{101}{200}$, $\frac{79}{82}$, $\frac{81}{75}$, $\frac{56}{64}$

Ans : $\frac{8}{3}$, $\frac{3}{4}$, $\frac{101}{200}$, $\frac{79}{82}$, $\frac{81}{75}$, $\frac{56}{64}$

5. Circle the improper fractions.

$\frac{35}{19}$, $\frac{19}{35}$, $\frac{107}{701}$, $\frac{52}{5}$, $\frac{201}{21}$, $\frac{210}{510}$

Ans : $\frac{35}{19}$, $\frac{19}{35}$, $\frac{107}{701}$, $\frac{52}{5}$, $\frac{201}{21}$, $\frac{210}{510}$

6. Complete the following table

	Numerator	Denominator	Fraction
(a)	7	5	$\frac{\quad}{\quad}$
(b)			$\frac{5}{9}$
(c)	6		$\frac{\quad}{7}$
(d)	86		$\frac{\quad}{17}$
(e)		59	$\frac{31}{\quad}$

Solution :

	Numerator	Denominator	Fraction
(a)	7	5	$\frac{7}{5}$
(b)	5	9	$\frac{5}{9}$
(c)	6	7	$\frac{6}{7}$
(d)	86	17	$\frac{86}{17}$
(e)	31	59	$\frac{31}{59}$

7. Which of the following are like fractions ?

$$\frac{6}{17}, \frac{18}{7}, \frac{17}{9}, \frac{7}{17}, \frac{21}{19}, \frac{32}{17}, \frac{12}{17}$$

Ans : The like fractions are $\frac{6}{17}, \frac{7}{17}, \frac{32}{17}, \frac{12}{17}$

8. Write any five unlike fractions with numerator 13.

Ans : Five unlike fractions with numerator 13 are - $\frac{13}{15}, \frac{13}{5}, \frac{13}{15}, \frac{13}{27}, \frac{13}{17}$

9. Write any six unit fractions.

Ans : Six unit fractions are - $\frac{1}{5}, \frac{1}{125}, \frac{1}{7}, \frac{1}{3}, \frac{1}{13}$ and $\frac{1}{15}$

10. Convert the following improper fractions to mixed fractions.

(a) $\frac{47}{6}$ (b) $\frac{99}{7}$ (c) $\frac{53}{13}$ (d) $\frac{127}{19}$

(e) $\frac{66}{5}$

Ans : (a) $7\frac{5}{6}$

(b) $\frac{99}{7} = 14\frac{1}{7}$

(c) $\frac{53}{13} = 4\frac{1}{13}$

(d) $\frac{127}{19} = 6\frac{13}{19}$

(e) $\frac{66}{5} = 13\frac{1}{5}$

[Show the division on the right side]

11. Convert the following mixed fractions into improper fractions.

(a) $3\frac{7}{9}$ (b) $4\frac{6}{13}$ (c) $25\frac{1}{6}$ (d) $173\frac{4}{11}$

(e) $205\frac{5}{7}$

Ans :

(a) $3\frac{7}{9} = \frac{3 \times 9 + 7}{9} = \frac{27 + 7}{9} = \frac{34}{9}$

(e) $205\frac{5}{7} = \frac{205 \times 7 + 5}{7} = \frac{1435 + 5}{7} = \frac{1440}{7}$

12. What fraction of a numbers from 1 to 20 are prime ?

Ans : - Numbers from 1 to 20 = 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20

Total numbers = 20

Prime Numbers from 1 to 20 = 2, 3, 5, 7, 11, 13, 17, 19

[* Note : Prime Number : The numbers which have exactly two factors 1 and the number itself.]**

Total prime numbers from 1 to 20 = 8

Required fraction = $\frac{8}{20}$

13. What is $\frac{2}{5}$ of 25 m ?

Ans : $\frac{2}{5}$ of 25 m

= $\frac{2}{5} \times 25$ m [of means multiplication]

= $(\frac{2}{5} \times 25)$ m

= $\frac{2 \times 25}{5}$ m

= $\frac{50}{5}$ m

= 10 m

14. What fraction of a rupee is 20 paisa ?

Ans : -

One – fifth of a rupee is 20 paisa.

[One rupee = 100 paisa , $\frac{1}{5}$ of a rupee = $\frac{1}{5}$ of 100 paisa. = $(\frac{1}{5} \times 100)$ paisa = 20 paisa.