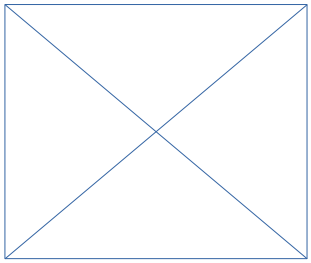
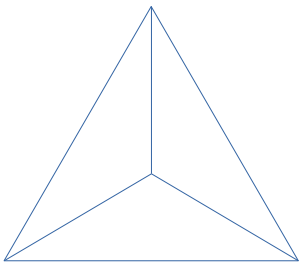
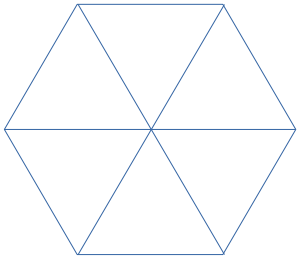
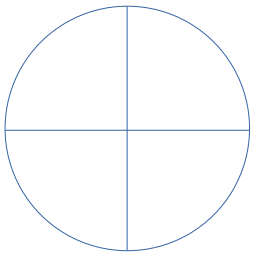
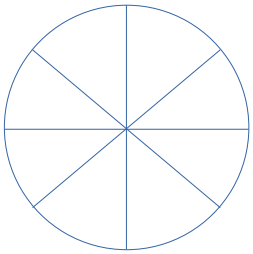
# 4 Parts and Wholes

- A fraction is a numerical representation of a part of a whole.

## A. Colour the shapes as per description.

| a. | b. | c. |
|---|---|---|
|  |  |  |
| three-fourth | one-third | three-sixth |

| d. | e. | f. |
|---|---|---|
|  |  |  |
| Half | two-sixth | three-eighth |

## B. Draw and colour the shapes as per description.

| a. Rectangle | b. Circle | C. Triangle |
|---|---|---|
| | | |
| Colour $\frac{1}{3}$ shape | Colour $\frac{3}{4}$ shape | Colour $\frac{1}{2}$ shape |

| d. Hexagon | e. Square | f. Circle |
|---|---|---|
| | | |
| Colour $\frac{4}{6}$ shape | Colour $\frac{1}{5}$ shape | Colour $\frac{3}{8}$ shape |

## C. Fill in the blanks.

a. A proper fraction is a fraction where the _____ is less than the _____.

b. If 1 is divided into 3 equal parts, each part is _____.

c. If a circle is divided into eight equal parts, each part is _____.

d. How many one-forth are required to make a whole? _____

e. If $\frac{1}{5}$ of a number is 4, then the number is _____.

f. Find $\frac{2}{3}$ of 30. _____

g. Is it possible to divide a triangle into 4 equal parts? Yes or No _____

h. _____ represents the total number of equal parts that make up a whole.

## D. Do as directed. Practice time.

a) Rohit have a box of Gulab jamun containing 15 pieces. He gave $\frac{1}{5}$ to Monu, $\frac{1}{3}$ to Seema and rest for him. How many Gulab jamun each got? If he gives one extra to each Monu and Seema, how much will he have.

Ans.

**b)** Colour the apples.

Colour $\frac{1}{3}$ in Yellow, $\frac{1}{4}$ in Red, $\frac{1}{6}$ in Green and remaining in Blue.

1. How many yellow apples are there _____
2. How many Red apples are there _____
3. How many Blue apples are there _____
4. How many Green apples are there _____
5. What will be the fraction of Yellow + Green apples _____
6. Is it possible to divide all apples into 4 equal parts. Yes or No

**c)** Jacky spent $\frac{1}{4}$ of a day in school and $\frac{1}{8}$ of a day playing and watching TV, he also spent $\frac{1}{12}$ of a day in studying and $\frac{1}{6}$ of a day for crafting and other activities. How much time did Jacky slept at night?
Ans.

**d)** Satish bought 120 candies on his birthday, he gave $\frac{1}{3}$ to his classmates, $\frac{1}{8}$ to his teachers and remaining to his society friends. How many candies each of them gets.
Ans.

## E. Answer the following questions.

a) 1 kg = 1000 g, then

(i) $\frac{1}{4}$ of a kg = _____ g

(ii) $\frac{4}{25}$ of a kg = _____ g

(iii) $\frac{3}{5}$ of a kg = _____ g

(iv) $\frac{3}{10}$ of a kg = _____ g

b) 1 Rs = 100 paise, then

(i) $\frac{3}{10}$ of Rs 20 = _____

(ii) $\frac{4}{5}$ of Rs 1 = _____

(iii) $\frac{2}{3}$ of Rs 3 = _____

(iv) $\frac{1}{4}$ of Rs 12 = _____

## F. Match the following.

a) 

i) $\frac{6}{8}$

b) 

ii) $\frac{2}{8}$

c) 

iii) $\frac{3}{8}$

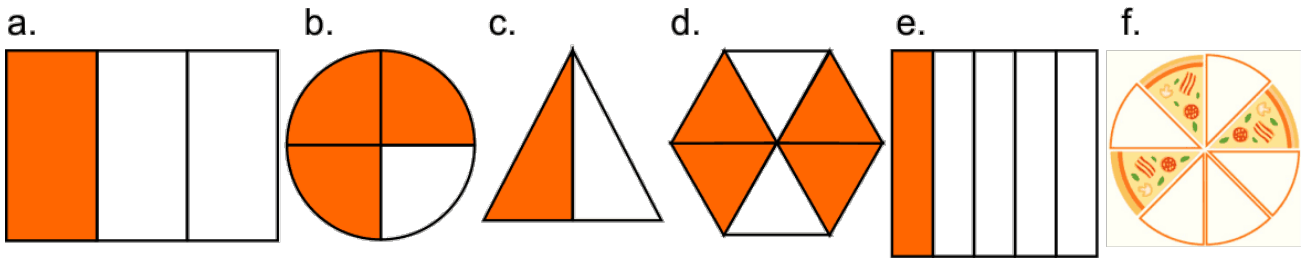
d) 

iv) $\frac{5}{8}$

# Answers

A.
Colour your self

B.




C.
a. Numerator, Denominator
b. 1/3
c. 1/8
d. 4
e. 20
f. 20
g. yes
h. Denominator

D.
a) Total Gulab Jamun = 15
Monu gets 1/5*15 = 3
Seema gets 1/3*15 = 5
Rohit gets 15-3-5=7

If he gives 1 extra to each
He gets 15-4-6=5

b)
Total Apples = 12

1. Yellow = 1/3*12 = 4
2. Red = 1/4*12 = 3
3. Blue = 3
4. Green = 1/6*12 = 2
5. Yellow + Green = 4+2 = 6
Fraction = 6/12 = 1/2
6. 12/4 = 3 Yes possible

c)
In a day there are 24 hours
Hours spent in a school = 1/4*24 = 6 hours
Hours spent in playing = 1/8*24 = 3 hours
Hours spent in studying = 1/12*24 = 2 hours
Hours spent in crafting = 1/6*24 = 4 hours
Hours slept = 24-6-3-2-4 = 9 hours
= 9/24 = 3/8

d)
Total Candies = 120
Distributed in class = 1/3*120 = 40
Distributed to teachers = 1/8*120 = 15
Distributed among society friends = 120-40-15
= 65 candies

E.
a)
i) 250 g ii) 160 g iii) 600 g iv) 300 g
b)
i) 6 Rs ii) 80 paise iii) 2 Rs iv) 3 Rs

F.
a) - iii), b) - iv), c) - i), d) - ii)