

CLASS NOTES

Class: 4

Chapter : 9

Subject: Mathematics

Halves & Quarters (WORKBOOK)

COPY THE CONTENT IN YOUR MATHS WORKBOOK (PG. No. 64 to 74)

1. Fill in the blanks:

(a) $\frac{1}{2} + \frac{1}{2} = 1$ whole

(b) $\frac{1}{2} + \frac{1}{4} + \frac{1}{4} = 1$ whole

(c) $\frac{1}{4} + \frac{1}{4} + \frac{1}{4} + \frac{1}{4} = 1$ whole

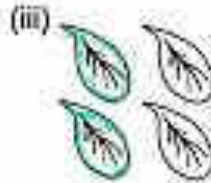
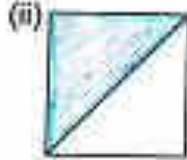
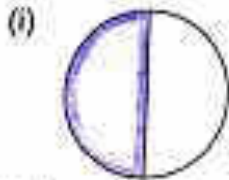
(d) $\frac{3}{4} + \frac{1}{4} = 1$ whole

(e) 2 *half* make a whole

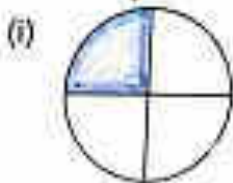
(f) 4 *quarter* make a whole

(g) $\frac{1}{4} + \frac{1}{4} + \frac{1}{4} = \frac{3}{4}$

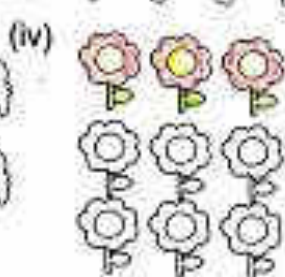
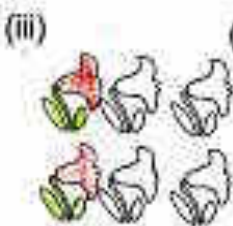
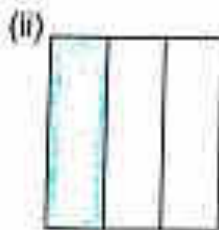
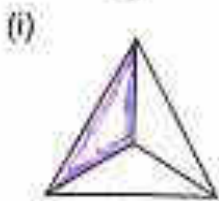
2. (a) Colour $\frac{1}{2}$ of each



(b) Colour $\frac{1}{4}$ of each



(c) Colour $\frac{1}{3}$ of each fruits



(d) Colour $\frac{2}{3}$ of each

(i)



(ii)



(iii)



(iv)



(e) Colour $\frac{3}{4}$ of each

(i)



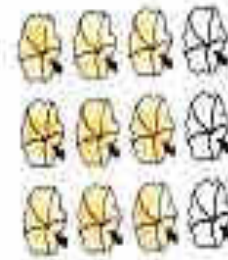
(ii)



(iii)



(iv)



3. (a) Divide the following shape into halves in 4 different ways by drawing a dotted line. Colour each half with a different colour.

(i)



(ii)



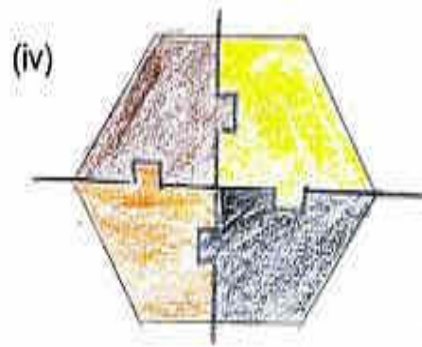
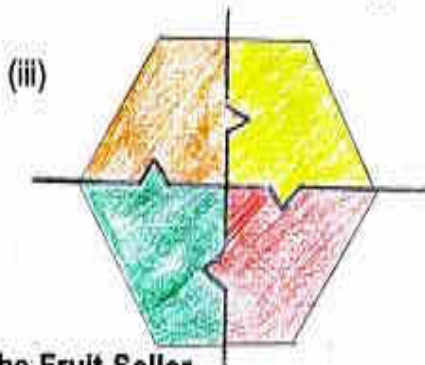
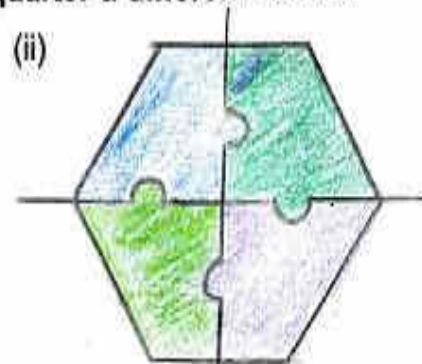
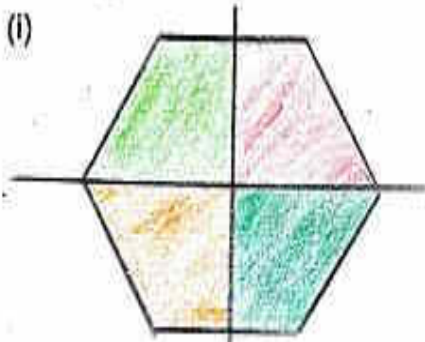
(iii)



(iv)



- (b) Divide the following shape into quarters in 4 different ways by drawing dotted lines. Colour each quarter a different colour.



4. The Fruit Seller.

Following are the prices of fruits at Shyams Fruit Shop.
Now answer the following questions:

- (a) Cost of $\frac{1}{2}$ Kg of grapes Rs. 14
 (b) Cost of $1\frac{1}{2}$ kg peaches Rs. 30
 (c) Cost of $\frac{3}{4}$ Kg of mangoes Rs. 27
 (d) Cost of $\frac{1}{2}$ Kg of cherries Rs. 40
 (e) If there are 5 oranges in $\frac{1}{4}$ Kg, then

SHYAM'S FRUIT SHOP	
Apples	Rs. 40/Kg
Mangoes	Rs. 36/Kg
Grapes	Rs. 28/Kg
Peaches	Rs. 20/Kg
Cherries	Rs. 80/Kg
Oranges	Rs. 40/Kg

how many oranges will be there in 1 Kg?

$$\frac{1}{4} \text{ kg} \times 4 = 1 \text{ Kg}; \frac{1}{4} \text{ kg} = 5 \text{ oranges } (5 \times 4) = 20 \text{ oranges}$$

- (f) There are 10 apples in $\frac{1}{2}$ Kg. How many apples will be there in $\frac{3}{4}$ Kg?

$$\frac{1}{2} \text{ kg} = 10, \text{ so } \frac{1}{4} \text{ kg} = 5; \therefore \frac{3}{4} \text{ kg} = 5 + 5 + 5 = 15 \text{ apples.}$$

$$[\text{Hint. } \rightarrow \frac{1}{4} + \frac{1}{4} + \frac{1}{4} = \frac{3}{4}]$$

(g) Sheila needs to buy 1 Kg of peaches, $\frac{1}{2}$ Kg of apples and $\frac{1}{4}$ Kg of grapes. She has Rs.50. Can she buy all the fruits on her list? If not

how much more money does she need?

Cost of 1 Kg peaches = Rs. 20 (1×20)
 Cost of $\frac{1}{2}$ kg apples = Rs. 20 $(\frac{1}{2} \times 40)$
 Cost of $\frac{1}{4}$ kg grapes = Rs. 07 $(\frac{1}{4} \times 28)$
 Total cost = Rs. 47

Yes, she can buy all fruits.

(h) Which costs more, $\frac{1}{2}$ Kg of peaches, or $\frac{1}{4}$ Kg of grapes?

Cost of $\frac{1}{2}$ kg peaches = $\frac{1}{2} \times 20 =$ Rs. 10

Cost of $\frac{1}{4}$ kg grapes = $\frac{1}{4} \times 28 =$ Rs. 07

$\frac{1}{2}$ kg peaches cost more.

5. Fill in the blanks:

(a) $\frac{6}{11}$ Numerator



(b) $\frac{8}{15}$ Denominator



(c) $\frac{13}{24}$ Denominator



(d) $\frac{10}{23}$ Numerator



(e) $\frac{87}{100}$ Numerator



(f) $\frac{21}{37}$ Denominator



6. Write fractions with:

Numerator

Denominator

Fractions

(a) 6

23

(b) 1

9

(c) 2

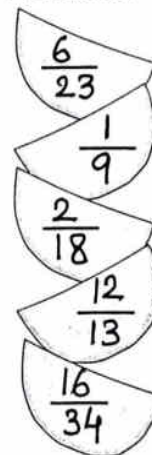
18

(d) 12

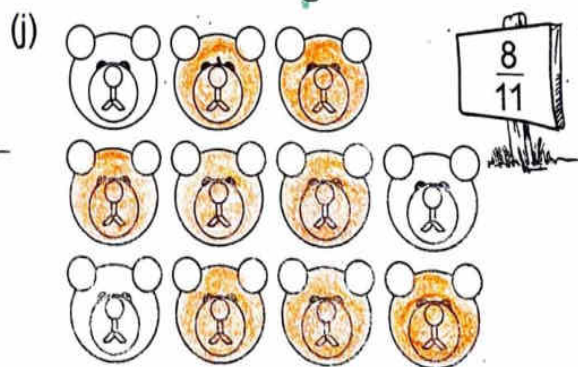
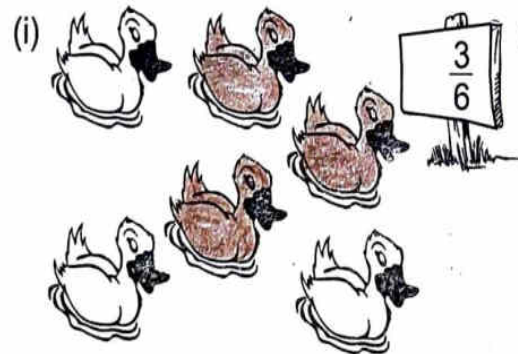
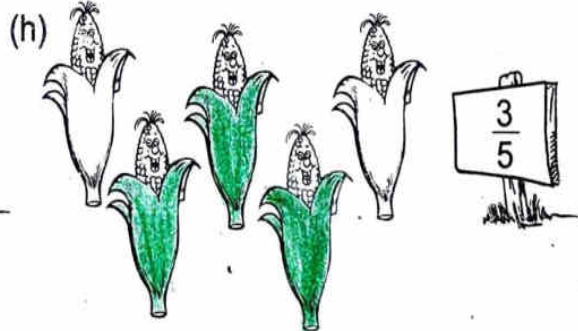
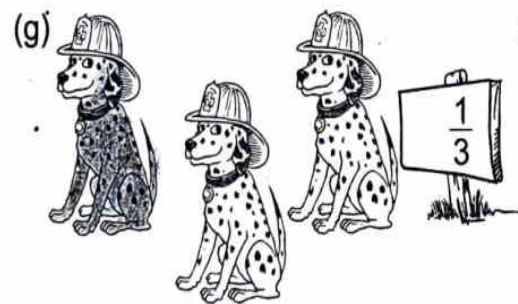
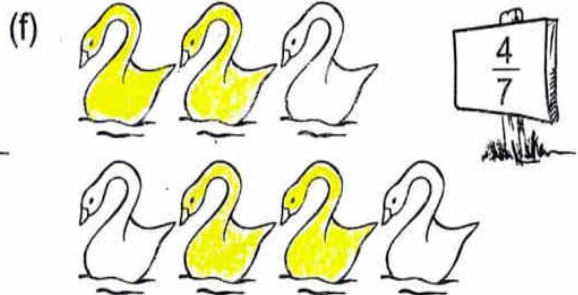
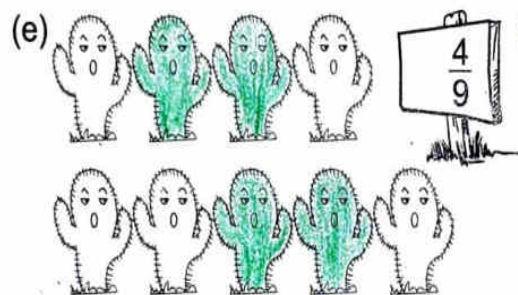
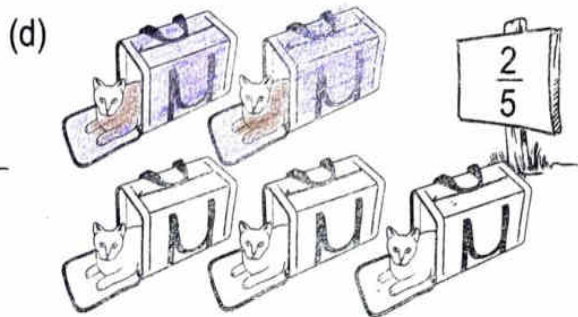
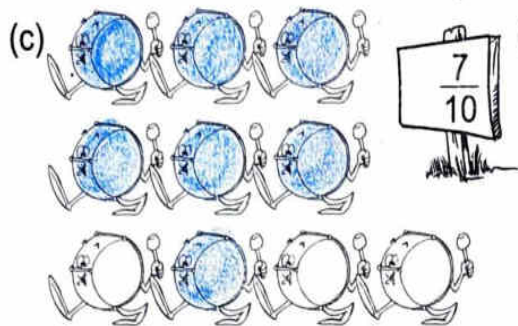
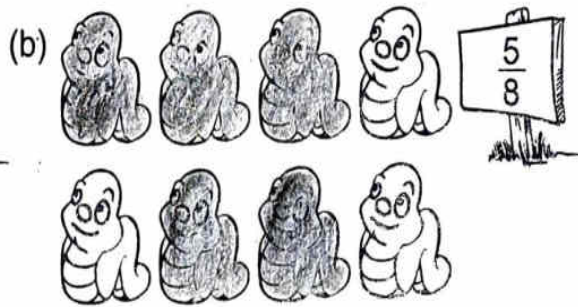
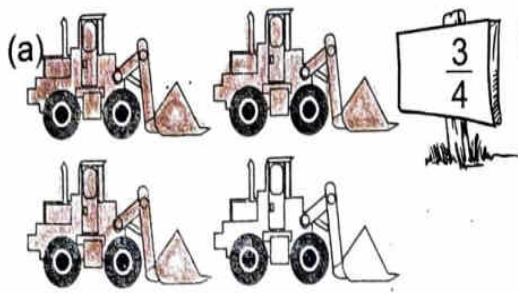
13

(e) 16

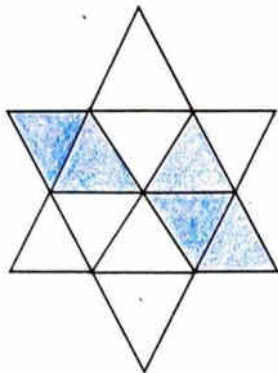
34



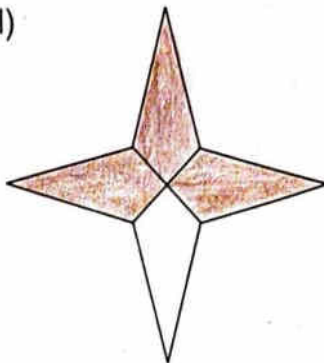
7. Colour the following objects or shapes to indicate the given fraction:



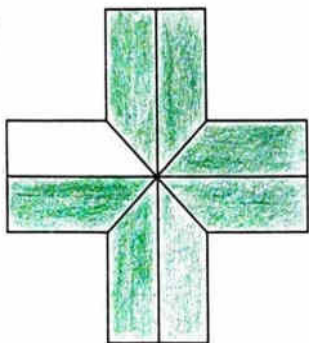
(k)



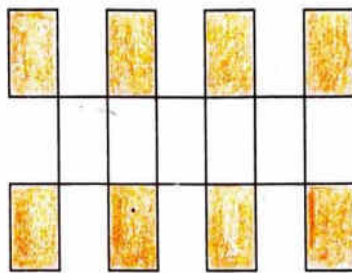
(l)



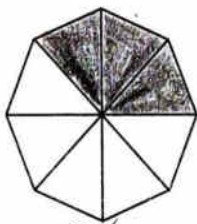
(m)



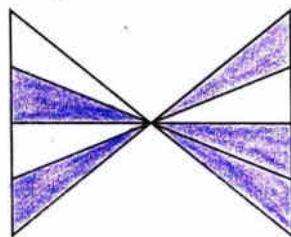
(n)



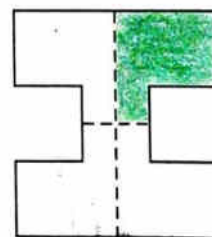
(o)



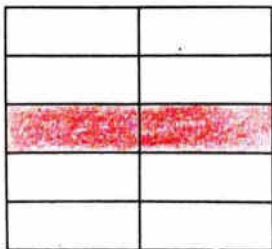
(p)



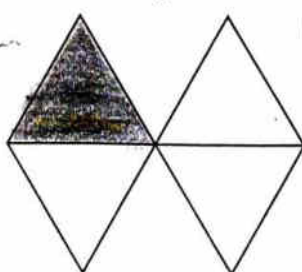
(q)



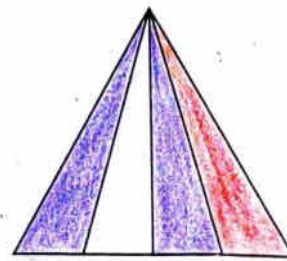
(r)



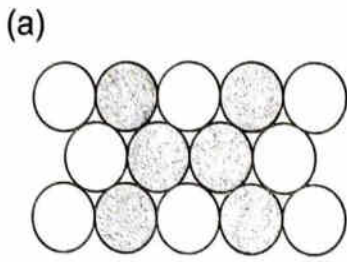
(s)



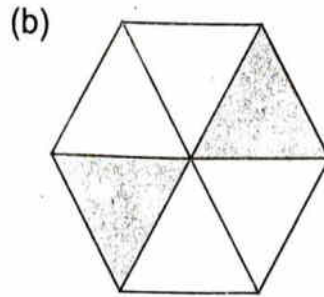
(t)



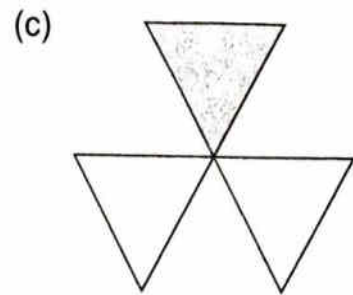
8. Write fraction for the shaded portion:



$\frac{6}{14}$



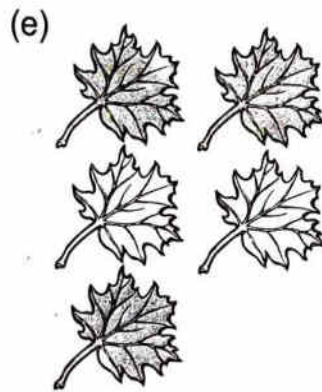
$\frac{2}{6}$



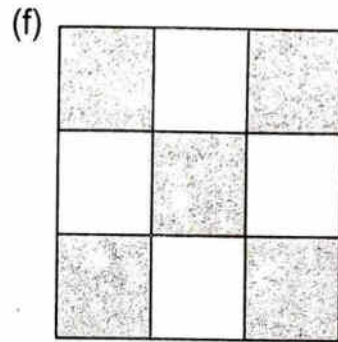
$\frac{1}{9}$



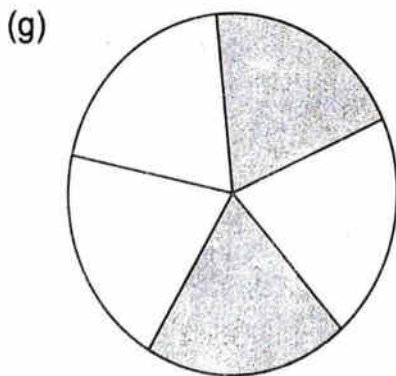
$\frac{6}{12}$



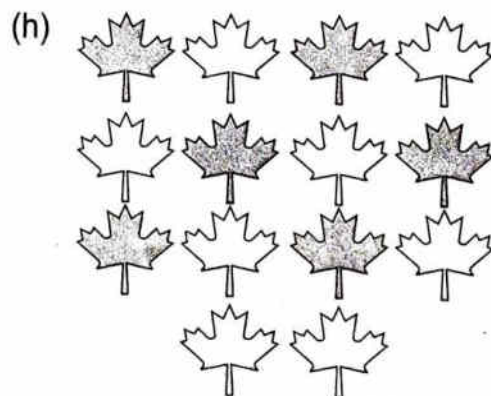
$\frac{3}{5}$



$\frac{5}{9}$

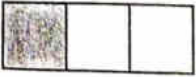
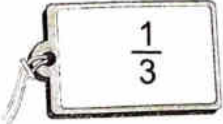
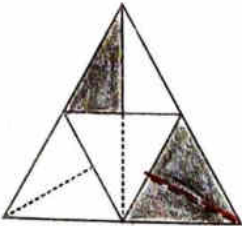
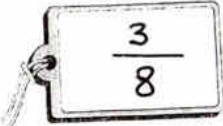
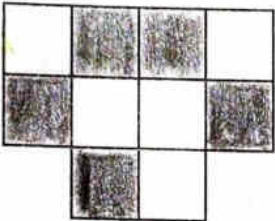
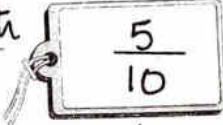
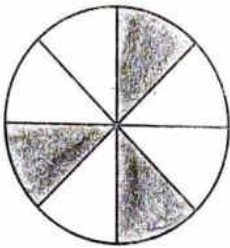
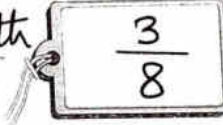
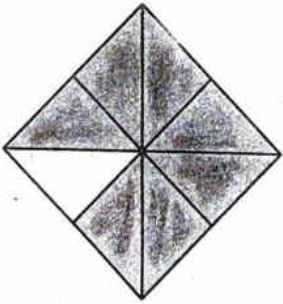
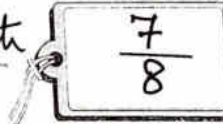
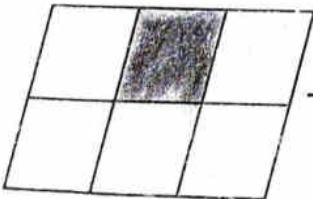
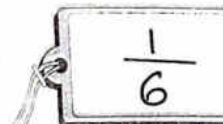


$\frac{2}{5}$

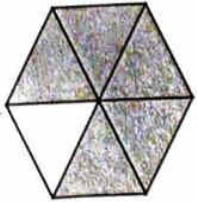
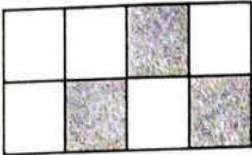
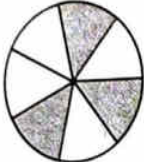
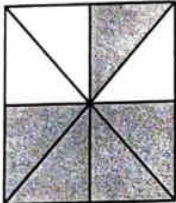
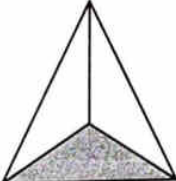


$\frac{6}{14}$

9. Complete the table as explained

Shape	Divided into	Shaded Part	Written as
Ex. 	3 Parts	One-Third	
(a) 	<u>8 Parts</u>	<u>Three-Eighth</u>	
(b) 	<u>10 Parts</u>	<u>Five-Tenth</u>	
(c) 	<u>8 Parts</u>	<u>Three-Eighth</u>	
(d) 	<u>8 Parts</u>	<u>Seven-Eighth</u>	
(e) 	<u>6 Parts</u>	<u>One-Sixth</u>	

10. Complete the table

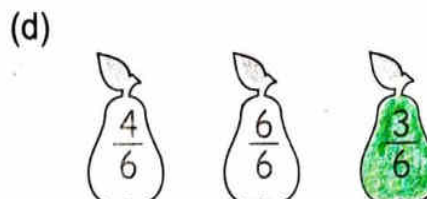
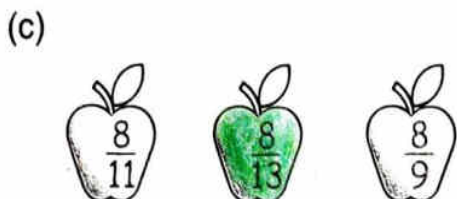
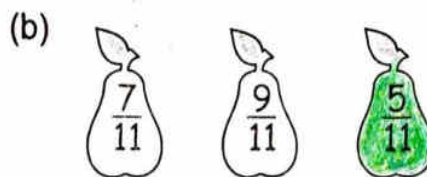
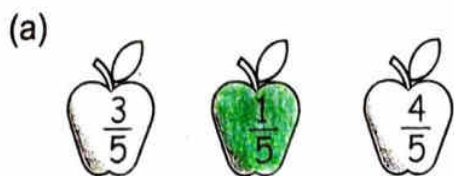
Figure	Fraction of Shaded portion	Unshaded portion
(a) 	$\frac{5}{6}$	$\frac{1}{6}$
(b) 	$\frac{3}{8}$	$\frac{5}{8}$
(c) 	$\frac{3}{7}$	$\frac{4}{7}$
(d) 	$\frac{5}{8}$	$\frac{3}{8}$
(e) 	$\frac{1}{3}$	$\frac{2}{3}$

11. Write the name of the fraction

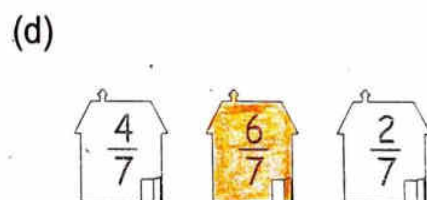
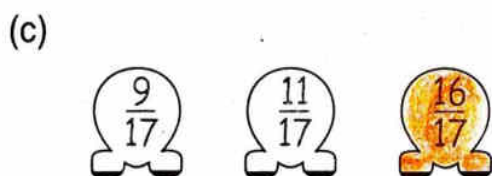
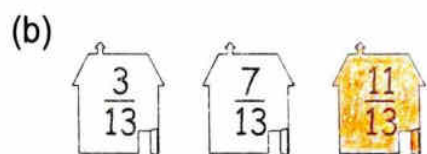
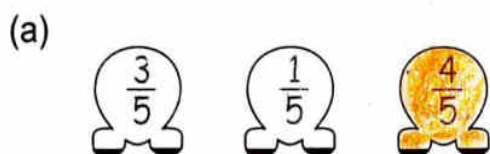
- (a) $\frac{3}{4}$ Three-fourth
- (b) $\frac{7}{9}$ Seven-Nineth
- (c) $\frac{1}{2}$ Half
- (d) $\frac{10}{11}$ Ten-Eleventh
- (e) $\frac{5}{6}$ Five-Sixth
- (f) $\frac{13}{15}$ Thirteen-Fifteenth

COMPARISON OF FRACTIONS

1. Circle the smallest fraction



2. Circle the greatest fraction:



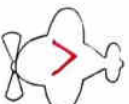
3. Fill in the blanks with $>$, $<$ or $=$.

(a) $\frac{3}{7}$  $\frac{5}{7}$

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


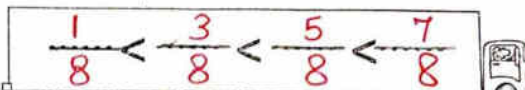
(c) $\frac{8}{13}$  $\frac{5}{13}$


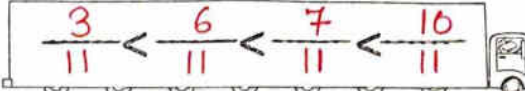
(d) $\frac{6}{7}$  $\frac{2}{7}$

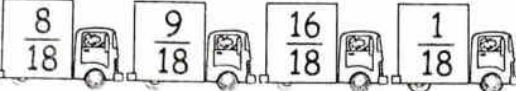
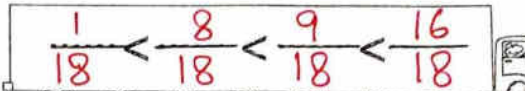
(e) $\frac{2}{7}$  $\frac{1}{7}$

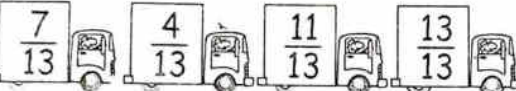
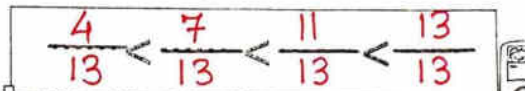
(f) $\frac{5}{8}$  $\frac{5}{8}$

4. Write in ascending order:


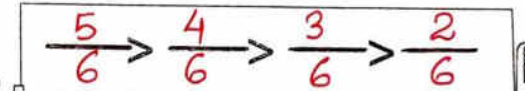
(a)  



(b)  


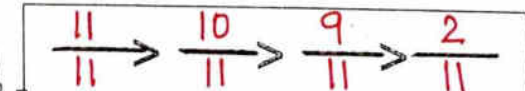
(c)  

(d)  

E. Write in descending order:

(a)  

(b)  

(c)  

(d) 