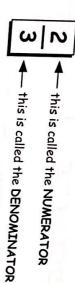


Percentage

ω

different denominators but they

A fraction consists of 2 parts :-



"how many" of the thirds (in this case 2). The "numerator" tells you the number or fraction you are dealing with (thirds here). The "denominator" is the name (or type) of

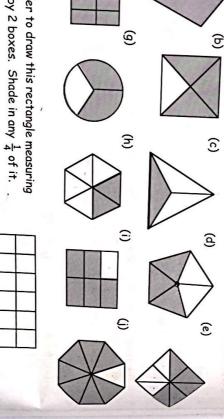


ਉ

Simplifying Fractions

Exercise 1

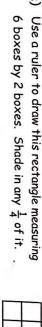
For each of the following, say what fraction has been shaded :-<u>0</u>



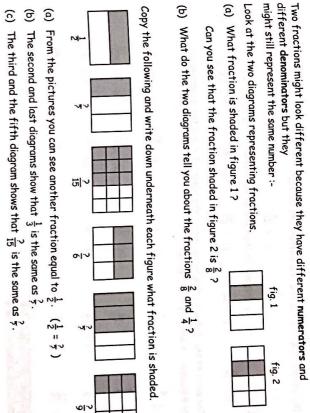
 \mathfrak{F}

(a) Use a ruler to draw this rectangle measuring 6 boxes by 2 boxes. Shade in any $\frac{1}{4}$ of it.

2



- 9 Draw the same box again.
- <u>O</u> Draw the same box again. This time shade or colour in $\frac{3}{4}$ of the shape. This time shade or colour in $\frac{1}{6}$ of the shape
- (d) Draw the same box again. This time shade or colour in $\frac{2}{3}$ of the shape.
- (e) Draw the same box again. This time shade or colour in $\frac{7}{12}$ of the shape.



<u>O</u>

numerator and the denominator by any number":-It is possible to find a fraction equivalent to $\frac{3}{4}$ by simply "multiplying the

$$\frac{3}{4} \text{ becomes } \frac{3 \times 5}{4 \times 5} = \frac{15}{20} \text{ denominator } \times 5$$

- Ģ (a) Multiply the top and the bottom of $\frac{3}{4}$ by 2 to create a new fraction. What is it?
- (b) Multiply the top and the bottom of $\frac{3}{4}$ by 3 to create a new fraction. What is it?
- (c) Find at least 4 more fractions equivalent to $\frac{3}{4}$.
- 6 Multiply the top and bottoms of each fraction by any simple number to create a new fraction equivalent to the one given:-
- (a) $\frac{1}{3}$
- ъ 5
- (c) $\frac{2}{7}$
- (a) $\frac{8}{7}$
- <u>e</u> 1019
- 3 217

We can SIMPLIFY fractions (like $\frac{9}{12}$) by "dividing" top and bottom by a number.

$$\frac{9}{12} \text{ becomes } \frac{9 \div 3}{12 \div 3} = \frac{3}{4}$$
 (this is the fraction in its simplest form)

Divide the top line and bottom line of each fraction by 3, to simplify each one:

.7

 Ξ ٥١٥

(ii) <u>6</u>

(a) Divide the top line and bottom line of each fraction by 3, to simplify each one:-(iii) $\frac{21}{24}$ (iv) 15 27 (√) 39 39

(vi) 18 33