Cl. 6 FRACTIONS: multiplication F5

a) Multiplying a fraction by a whole number:

*What you write Explanation*

Make the whole number an improper fraction by writing it over 1



= 

Multiply numerator by numerator

& denominator by denominator

= 

Make an improper fraction into a mixed number

= 

b) Multiplying a fraction by a fraction:

*What you write Explanation*



Multiply numerator by numerator

& denominator by denominator

Change the fraction into lowest terms

(or a mixed number)

== 

c) Cancelling:

BEFORE you multiply, see if you can divide a numerator and a denominator by the same number

e.g. 3 (numerator ÷ 3) = 1

9 (denominator ÷ 3) =3

*1*

******

3

8 x 1

3 x 5

= 

*LEARN:* 1) Make all the whole numbers into improper fractions

2) 'of' means multiply

3) Cancel in pairs - a numerator and a denominator

SO only cancel or **NEVER**

1. Multiply - numerator x numerator

denominator x denominator

Cl. 6 FRACTIONS F5

Finding a fraction of a number

e.g. a) Find  of 18

either is 18 ÷ 3 = 6 or  of 18 (Remember *of* means x )

6

 is 6 x 2 =12 =   (Cancel by 3)

1

= = 12

2 x 6

1 x 1

b) Find of 273 *When the numbers are large, show the sums if you wish*

 is 273 ÷ 7 = 39 7) 273 39

39 x 3

 is 39 x 3 = 117 117

Finding the whole number

|  |  |  |
| --- | --- | --- |
| 7 |  |  |

e.g. a)  of a number is 7

|  |  |  |
| --- | --- | --- |
| 7 | 7 | 7 |

so  is 7 x 3 = 21

|  |  |  |
| --- | --- | --- |
| 7 | 7 |  |

b)  is 14

|  |  |  |
| --- | --- | --- |
| 7 |  |  |

so  is 14 ÷ 2 = 7

|  |  |  |
| --- | --- | --- |
| 7 | 7 | 7 |

so  is 7 x 3 = 21

Expressing one number as a fraction of another:

e.g. i) *I got 11 out of 16 spellings* *correct. What fraction was correct?*

*Ans:*  11

16

1. *What fraction* ***of 20***is 15*? Ans:* 15 = 3

20 4

Remember : is i.e.*. the ‘whole amount’ is always the denominator.*

***of***