**Subject: MATHS** **15.07.2020**

**Class 4**

**Lesson: 7 B Multiplication and factors**

**Dear students**

**You are learning multiplication and factors. For better understanding you have to keep formula of divisibility of numbers. Very early you got rules of divisibility.**

**Remember rules**

EXPT. NO.

NAME:

Class- IV

Ex- 7.(B)

Page No.:

Date:

YOUVA

## Multiple and Fraction

How to find any number is exactly divided by the given smaller number. If you divide any greater number with other smaller number, if remainder is zero then that number is factor or multiple of each other.

Ex- find the factor of 72.

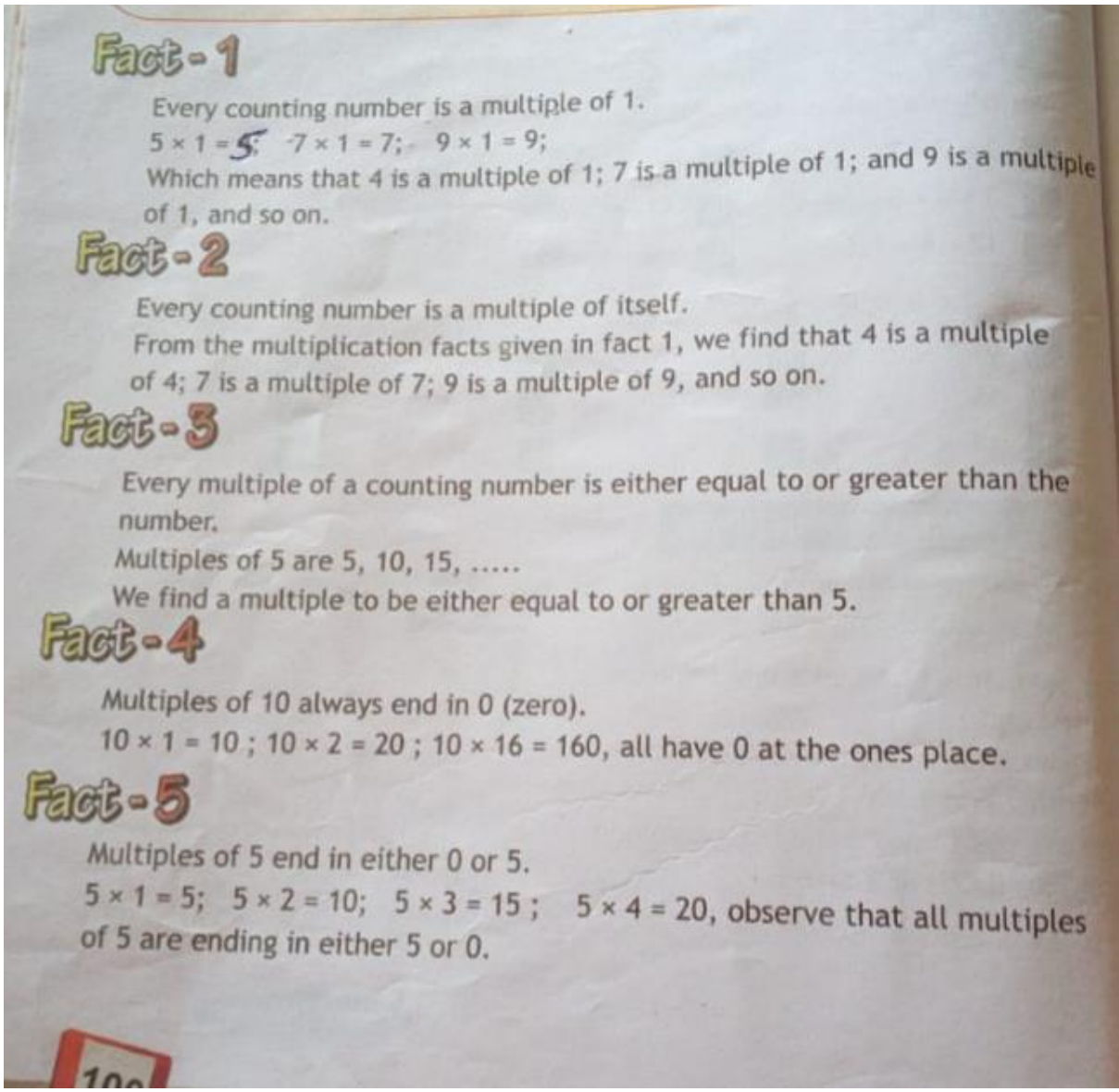
Solve:- Factor of 72 =

1, 2, 3, 4, 6, 8, 12, 18, 24, 36 and 72.

if you divide all the factors with 72, you will get remainder zero.

Teacher's Signature:

## Remember rules



**Fact - 1**

Every counting number is a multiple of 1.

$5 \times 1 = 5$; $7 \times 1 = 7$; $9 \times 1 = 9$;

Which means that 4 is a multiple of 1; 7 is a multiple of 1; and 9 is a multiple of 1, and so on.

**Fact - 2**

Every counting number is a multiple of itself.

From the multiplication facts given in fact 1, we find that 4 is a multiple of 4; 7 is a multiple of 7; 9 is a multiple of 9, and so on.

**Fact - 3**

Every multiple of a counting number is either equal to or greater than the number.

Multiples of 5 are 5, 10, 15, .....

We find a multiple to be either equal to or greater than 5.

**Fact - 4**

Multiples of 10 always end in 0 (zero).

$10 \times 1 = 10$ ; $10 \times 2 = 20$ ; $10 \times 16 = 160$, all have 0 at the ones place.

**Fact - 5**

Multiples of 5 end in either 0 or 5.

$5 \times 1 = 5$; $5 \times 2 = 10$; $5 \times 3 = 15$ ; $5 \times 4 = 20$, observe that all multiples of 5 are ending in either 5 or 0.

Class- IV

Ex- Write the common multiples (up to 50) of

(a) 8 and 5

$= 8 \times 5$

$= 40$

(b) 6 and 7

$= 6 \times 7$

$= 42$

Q. Is 84 multiple of 6?

Solve:- for getting the answer, we shall divide and find remainder so-

```
6 ) 84 ( 14
    6
   ---
    24
  - 24
   ---
    xx
```

So, the remainder is zero(0)

Thus, 84 is multiple of 6 Ans

EXPT. NO.

NAME:
Class- IV.

Page No.:
Date:

YOUVA

# Home Assignment

(1) Find the first common multiple of :-

(a) 7 and 4 (b) 2 and 6

(c) 8 and 7 (d) 6 and 9

(e) 3 and 8 (f) 11 and 12

(g) 18 and 15 (h) 18 and 5

(i) 9 and 12 (j) 9 and 12

(k) 5 and 6 (l) 4 and 8

(m) 5 and 12 (n) 12 and 13

(o) 7 and 6 (p) 11 and 13

(q) 12 and 17 (r) 17 and 18

(s) 6 and 4 (t) 5 and 9

Class- IV

Q→ Find the first three common multible of :-

(a) 3 and 6   (b) 4 and 8

(c) 5 and 4   (d) 1 and 2,

(e) 7 and 3   (f) 2 and 3

(g) 6 and 8   (h) 5 and 7

one example is done for you!—

- First three common multible of 2 and 3

=> 2x3 = 6, 12, 18.

So, 6, 12, 18 are first three common multible of 2 and 3

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15/7/20

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