A. Arithmetic

1. Integers

2. Fractions

3. Decimals

- 4. Real numbers
- 5. Ration and proportion

- 6. Percent
- Power and roots of numbers

B. Algebra

- Simplifying
 Equations
- 3. Solving linear equations with one unknown
- 4. Solving linear equations with two unknown

C. Geometry

1. Line

2. Intersecting lines and angles

3. Triangles 4. Circles

Area of Triangle, Area of Square, Area of Cubic Parameter of a triangle, Square and.....

D. Word problems

Rate

2. Interest

3. Discount

4. Profit

5. Mixture

6. Sets

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1. Rate

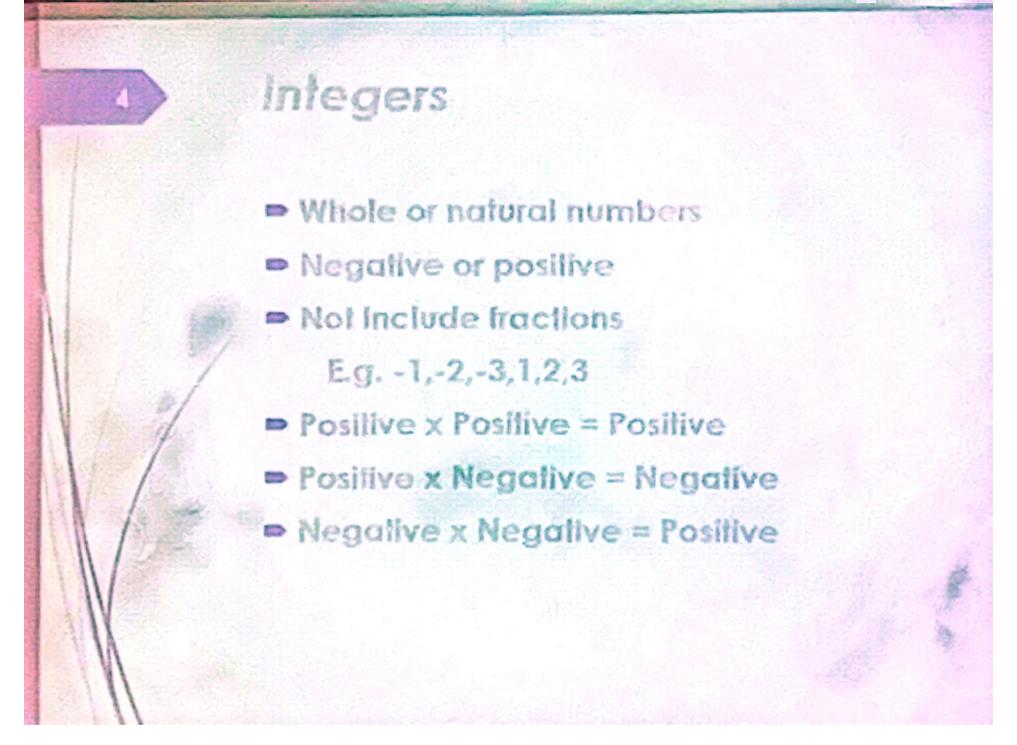
2. Interest

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6. Sets



Remainders

- Odd or Even
- Consecutive integers
 - Integers listed in order of increasing value without any integers missing between Ex, 2,3,4 or -1,0,+1

Prime numbers

- A positive integer that is divisible by only two numbers: itself and 1
- -2,3,5,7,11,13,17
- ⇒0 or 1 is not a prime number

Factors

$$= 15 = (3)(5)$$

$$= 21 = (7)(3)$$

Factorial

Absolute value

The distance between that numbers and 0

Real Numbers

- All real numbers except zero are either positive or negative.
- □ -5 -4 -3 -2 -1 0 +1 +2 +3 +4

- $_{3/2}$ 0.2 $\sqrt{2}$

$$x + y = y + x$$

 $xy = yx$

Descriptive Statistics

- ■Mean or Average
- Median
- Mode

$$a^{2} - b^{2} = (a - b) (a + b)$$

 $(a^{3}) (a^{3}) = a^{2} + a^{3} = a^{5}$
 $x^{6} = 1$