

ST. LAWRENCE HIGH SCHOOL



Date: 11. 05.20

Full Marks: 15

A JESUIT CHRISTIAN MINORITY INSTITUTION

Sub: Arithmetic Duration: 40 min

Class: 7 Worksheet 19 <u>PROPORTION</u>

Choose the Correct options:

- 1. If two quantities are related in such a way that increase in 1 quantity causes increase in other quantity, then this variation is said to be
 - a) joint proportion
 - b) extreme proportion
 - c) direct proportion
 - d) inverse proportion

2. If 2 ratios a:b and c:d are equal then we can write it as

- a) a:b/c:d
- b) a:b=c:d
- c) a+b=c+d
- d) a: c = d: b

3. A statement which is expressed as an equivalence of two ratios is known as

- a) proportion
- b) variation
- c) ratio
- d) probability

4. If two quantities are related in such a way that when 1 quantity increases, the other quantity decreases, then this variation is said to be

- a) extreme proportion
- b) joint proportion
- c) direct proportion
- d) inverse proportion

5. Symbolically the proportion of a, b, c, d is written as

- a) a : b :: c : d
- b) a+b :: c+d
- c) a+b=c+d
- d) a b = c d
- 6. In a : b = c : d, b and c are called
 - a) antecedent
 - b) extreme
 - c) consequent
 - d) mean
- 7. In ratio a : b, the second term b is called
 - a) antecedent
 - b) extreme
 - c) consequent
 - d) mean
- 8. The relationship between 2 or more proportions is known as
 - a) joint proportion
 - b) extreme proportion
 - c) Compound proportion

- d) inverse proportion
- 9. The fourth proportional to 5, 8, 15 is:
 - a) 18
 - b) 24
 - c) 19
 - d) 20

10. If x, y and z are in proportion, then:

- a) x:y::z:x;
- b) x:y::y:z;
- c) x:y:z:y;
- $d) \quad x:z::y:z$

11. If a/(b+c) = b/(c+a) = c/(a+b), then each fraction will be equal to,

a) $(a + b + c)^2$ b) $\frac{1}{2}$ c) $\frac{1}{4}$ d) 0

12. If a:b = c:d, then the value of $(a^2 + b^2)/(c^2 + d^2)$ is,

a) $\frac{1}{2}$ b) (a+b)/(c+d)c) (a-b)/(c-d)d) ab/cd

13. If a and b are positive integers than $\sqrt{2}$ always lies between:

- a) (a+b)/(a-b) and ab
- b) a/b and (a + 2b)/(a + b)
- $c) \quad a \ and \ b$
- d) ab/(a+b) and (a-b)/ab

14. The value of m, if 3, 18, m, 42 are in proportion is:

- a) 6;
- b) 54;
- c) 7;
- d) none of these

15. Length and width of a field are in the ratio 5 : 3. If the width of the field is 42 m then its length is:

- a) 100 m;
- b) 80 m;
- c) 50 m;
- d) 70 m