| \underline{U} | nit 3 | | | Vari | ations |
|-----------------|-----------------------------------------------------------------------------------------------------------|----------------------------------------|---------------------------------|---------------------------------|-------------------------------------------|
| 1 | In an ratio a : b , a is called | Relation | √Antecedent | Consequent | None of these |
| 2 | In ration x : y , y is called | Relation | Antecedent | ✓ Consequent | None of these |
| 3 | In proportion a : b :: c : d , a and d are called | Means | ✓ Extremes | Third proportion | None of these |
| 4 | In proportion $a:b::c:d$, b and c are called | √Means | Extremes | Fourth proportion | None of these |
| 5 | In continued proportion $a: b = b: c$, $ac = b^2$, b is said to be proportional between a and c . | Third | Fourth | √Means | None of these |
| 6 | In continued proportion $a: b = b: c$, c is said to be proportional between a and b . | √Third | Fourth | Mean | None of these |
| 7 | Find x in proportion $4:x::5:15$ | √12 | $\frac{3}{4}$ | $\frac{4}{3}$ | $\frac{75}{4}$ |
| 8 | If $u \propto v^2$, then | $u = v^2$ | $\sqrt{u = kv^2}$ | $uv^2 = k$ | $uv^{2} = 1$ |
| 9 | If $y^2 \propto \frac{1}{x^3}$, then | $\checkmark y^2 = \frac{k}{x^3}$ | $y^2 = \frac{1}{x^3}$ | $y^2 = x^2$ | $y^2 = kx^2$ |
| 10 | If $\frac{u}{v} = \frac{v}{w} = k$, then | $\sqrt{u} = wk^2$ | $u = vk^2$ | $u = w^2 k$ | $u = v^2 k$ |
| 11 | The third proportion of x^2 and y^2 is | $\frac{y^2}{\sqrt{2}}$ | x ² y ² | $\sqrt{\frac{y^4}{x^2}}$ | $\frac{y^2}{x^4}$ |
| 12 | The fourth proportional w of $x: y :: v: w$ is | $\frac{xy}{v}$ | $\sqrt{\frac{vy}{x}}$ | xyv | $\frac{\overline{x}^4}{x}$ $\frac{x}{vy}$ |
| 13 | If $a:b::x:y$, then alternando property is | $\sqrt{\frac{a}{x}} = \frac{b}{y}$ | $\frac{a}{b} = \frac{x}{y}$ | $\frac{a+b}{b} = \frac{x+y}{y}$ | $\frac{a-b}{x} = \frac{x-b}{x}$ |
| 14 | If $a: b :: x: y$, then invertendo property is | $\frac{a}{x} = \frac{b}{y}$ | $\frac{a}{a-b} = \frac{x}{x-y}$ | $\frac{a+b}{b} = \frac{x+y}{y}$ | $\sqrt{\frac{b}{a}} = \frac{y}{x}$ |
| 15 | If $\frac{a}{b} = \frac{c}{d}$, then componendo property is | $\sqrt{\frac{a}{a+b}} = \frac{c}{c+d}$ | $\frac{a}{a-b} = \frac{c}{c-d}$ | $\frac{ad}{bc}$ | $\frac{a-b}{b} = \frac{c-b}{a}$ |

Prepared By: M. Tayyab, SSE(Math) Govt Christian High School, Daska. Mobile: 03338114798
Website: https://hiraacademy.online/
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