Geometry Ch 7 Fitch FMS

1. **7-1 a/b = c/d is proportional to**	ad = cb; a/c = b/d; b/a = d/c;
2. **7-1 Cross-Products Property**	Cross-multiply. The product of the extremes equals the product of the means.
3. **7-1 Extended Ratio (ampliado, étendu, hwagjang, Kuòzhǎn)**	Comparison of 3 or more quantities (e.g., a:b:c)
4. **7-1 Extremes (extremo, extrême, geugdan, Jíduān)**	The first and last terms of a proportion
5. **7-1 Means (medio, moyen terme, jung-gan, Zhōngjiān)**	The middle terms of a proportion
6. **7-1 Proportion (proporción, biyul, Bǐli)**	An equation that states that 2 ratios are equal. a/b = c/d or a:b = c:d
7. **7-1 Ratio (proporción, rapport, bi, Bǐ)**	Comparison of two quantities by division. a/b or a:b or a to b
8. **7-2 ~ (tilde "TILL-duh")**	Similar, similarity (also Not, Negation, Approximately)
9. **7-2 Extended Proportion**	3 or more equal ratios (e.g., a/b = c/d = e/f)
10. **7-2 Scale Factor (escala, échelle, gyumo, Guīmó)**	Ratio of the lengths of corresponding sides of similar figures
11. **7-2 Similar Figures (similaire, biseushan, Lèisì)**	2 figures that have the same shape. Not necessarily the same size.
12. **7-2 Similar Polygons**	Corresponding angles are congruent; lengths of corresponding sides are proportional.
13. **7-3 AA~ Postulate**	2 triangles are similar if 2 angles of one triangle are congruent to 2 angles of another
14. **7-3 SAS~ Theorem**	2 triangles are similar if 2 corresponding sides are in proportion and the included angles are congruent
15. **7-3 SSS~ Theorem**	2 triangles are similar if all corresponding sides are in proportion
16. **7-4 Geometric Mean**	Used in Right Triangle Similarity. The number x such that a/x = x/b, where a, b, and x are positive numbers.