$\qquad$

### 5.6 Equivalent Ratios - Notes

The ratio of triangle to squares is $4: 3$


The ratio of triangles to squares is $8 \cdot 6$


The ratios $4: 3$
and 8:6 are called equivalent ratios


$$
\frac{4 \times 2}{3 \times 2}=\frac{8}{6}
$$

Note: an equivalent ratio can be formed by multi, plying or dividing the terms of a ratio by the same number.

Example (1): Write 3 ratios equivalent to 6:11


Example (2): Write 3 ratios equivalent to 48: 8

$$
\therefore 2\binom{48: 8}{24: 4} \div 2
$$

$$
=4\binom{48: 8}{12: 2} \div 4
$$

$$
\therefore 8\left(\begin{array}{c}
48: 8 \\
6: 1 \\
7
\end{array}\right) \div 8
$$

Example (3): A bracelet kit comes in different sizes.
The regular kits contains 210 beads, 140 jewels, and 70 bands.
List 3 other kits that could be created with the same ratio of beads, jewels and bands.
Beads: jewels: bands

$$
\div 2\binom{210: 140: 70}{\frac{162}{105: 70: 35}} \div 2
$$

$$
\times 2\binom{210: 140: 70}{4 \times 2} \times 2
$$



