NOTES: CC.6.RP.3a

Name_____ Date_____

Applications of Equivalent Ratios

WHEN WILL WE EVER USE THIS????

Example 1:

Annie reads 5 chapters in 2 hours. At this rate, how many chapters will she read in 6 hours?

STRATEGIES:

Using a Table:

Chapters Read	5	10	15
Time (hours)	2	4	6

x2, x3, x2, x3

Writing Equivalent Ratios:

Annie reads 15 chapters in 6 hours

$\frac{5 \text{ chapters}}{2 \text{ hours}} = \frac{15 \text{ chapters}}{6 \text{ hours}}$

x3, x3

Example 2: Determine the unknown value.

$\frac{45}{\square} = \frac{15}{7}$

"is equivalent to"

$\frac{15}{7} = \frac{45}{21}$ (x3)

$\square = 21$

3) 45 → 15

NOTES: CC.6.RP.3a

Example 3:

Jordan made 6 out of every 10 baskets he attempted during basketball practice. If he attempted 25 baskets, how many did he make?

STRATEGIES:

Using a Table:

Made	3	6	15
Attempts	5	10	25

÷2 ×5 ÷2 ×5

Writing Equivalent Ratios:

$\frac{6 \text{ made}}{10 \text{ Attempts}} = \frac{\square \text{ Made}}{25 \text{ Attempts}}$

$\frac{6}{10} \overset{\div 2}{=} \frac{3}{5} \overset{\times 5}{=} \frac{15}{25}$

Example 4: Determine the unknown value.

$$\frac{15}{40} = \frac{\square}{32}$$

Using a Table:

Writing Equivalent Ratios: