

## 5.3 Writing Proportions

One way to write a proportion is to use a table

	Last m	This Month
Purchase	2 rt	3 rt
Cost	6 \$	x \$

 $= \frac{2}{6} = \frac{3}{x}$

1 ex test worth 50 points; test score of 78%

x	78%
50	100

 $= \frac{x}{50} = \frac{78}{100}$

2 Ex Test worth 150 points; test score of 96%

x	96
150	100

 $= \frac{x}{150} = \frac{96}{100}$

Use a table

	may	June
Winners	17	34
Entries	85	170

 $\frac{17 \text{ winners}}{85 \text{ entries}} = \frac{34 \text{ winners}}{170 \text{ entries}}$

Solve the proportion

1)  $\frac{1}{3} = \frac{x}{12}$   $x=4$

2)  $\frac{5}{9} = \frac{25}{y}$   $y=45$

3)  $\frac{26}{z} = \frac{2}{22}$   $z=44$

4)  ~~$\frac{b}{30} = \frac{2.6}{1.5}$~~   $b=52$