

Homework:

1. Write an equivalent ratio for each.

a) $12:6 = 4:2$

b) $6:1 = 12:2$

c) $4:10:6 = 2:5:3$

2. Solve the following problem.

A class contains boys and girls in the ratio of 4 to 6. If there are 15 girls, then how many girls are there?

boys

Boy: Girls
 $4:6 = B:15$

$$\frac{4}{B} = \frac{6}{15}$$

$$\frac{6B}{6} = \frac{60}{6}$$

$$B = 10 \text{ boys}$$

3. Three mail delivery people (John, Al, and Beth) agree to split the total earnings in the ratio of the amount of deliveries that each person made. John, Al, and Beth deliver in the ratio of 5 to 2 to 3. If Al makes \$18, then how much did John and Beth make?

John: Al: Beth

$$5:2:3 = J:18:B$$

$$\frac{5}{J} = \frac{2}{18} = \frac{3}{B}$$

$$\frac{5}{J} = \frac{2}{18}$$

$$\frac{2}{18} = \frac{3}{B}$$

$$\frac{2J}{2} = \frac{90}{2}$$

$$\frac{2B}{2} = \frac{54}{2}$$

$$J = \$45$$

$$B = \$27$$

John earns \$45.
Beth earns \$27.