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Date

## 7.1 – Ratios and Proportions

Write the ratio of the first measurement to the second measurement.

1)	diameter of a salad plate: 8 in.	diameter of a dinner plate: 1 ft.	
2)	garden container width: 2 ft 6 in.	garden container length: 8 ft.	
3)	width of a canoe: 28 in.	length of a canoe: 12 ft. 6 in.	
4)	height of a book: 11 in.	height of a bookshelf: 3 ft. 3 in.	

5) The perimeter of a rectangle is 280 cm. The ratio of the width to the length is 3 : 4. What is the length of the rectangle?

- 6) The ratio of country albums to jazz albums in a music collection is 2 : 3. If the music collection has 45 albums, how many are country albums?
- 7) The lengths of the sides of a triangle are in the extended ratio 3 : 6 : 8. The triangle's perimeter is 510 cm. What are the lengths of the sides?

Solve each proportion. Show all work.

8)	<i>x</i> _	13	9)	9	9x
	$\frac{-}{4}$	$\overline{52}$		$\overline{10}$	-70

$$\frac{10}{7} = \frac{b+1}{56}$$

$$\frac{11}{2x+1} = \frac{16}{40}$$





16) The measures of two consecutive angles in a parallelogram are in the ratio 4 : 11. What are the measures of the four angles of the parallelogram?

17) A band director needs to purchase new uniforms. The ratio of small to medium to large uniforms is 3 : 4 : 6.

- a. If there are 260 total uniforms to purchase, how many will be small?
- b. How many of these uniforms will be medium?
- c. How many of these uniforms will be large?