

6. Ratio and Unit Conversion

Key Idea: Using Conversion Rates as Ratios

If **1 large unit = conversion rate × small unit**, you can find the total of small units (forward) or the number of large units (backward).

a) 1 m = 100 cm. 5 m = ? cm. 300 cm = ? m

Meters	1	→	5	→	3
Centimeters	100	→	500	→	300
Rate	100	→	100	→	100

b) 1 kg = 1000 g. 4 kg = ? g. 7000 g = ? kg

Kilograms	1	→		→	7
Grams	1000	→	4000	→	
Rate	1000	→	1000	→	1000

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c) 1 hour = 60 min. 3 hours = ? min. 240 min = ? hours

Hours	1	→		→	4
Minutes	60	→	180	→	
Rate	60	→	60	→	60

d) 1 L = 1000 mL. 2 L = ? mL. 5000 mL = ? L

Liters	1	→		→	5
Milliliters	1000	→	2000	→	
Rate	1000	→	1000	→	1000

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e) 1 ft = 12 in. 4 ft = ? in. 60 in = ? ft

Feet	1	→		→	5
Inches	12	→	48	→	
Rate	12	→	12	→	12

f) 1 yd = 3 ft. 6 yd = ? ft. 21 ft = ? yd

Yards	1	→		→	7
Feet	3	→	18	→	
Rate	3	→	3	→	3