

1) equation

2) solve

3)  $r = s + t$

4)  $b = c - Ax$

5)  $y = \frac{x}{3}$

6)  $J = \frac{(k-5)}{2}$

7)  $y = 2x - 4$

8)  $s = \frac{(t+b)}{b}$

9)  $w = \frac{A}{L}$

10) 8 in.

11)  $C = \left(\frac{5}{9}\right)(F - 32)$

12)  $37^\circ\text{C}$

13)  $w = \frac{A}{L}$ ;  $w = 4$

14)  $h = \frac{2A}{b}$ ;  $h = 6$

15)  $L = \frac{2A}{w}$ ;  $L = 16$

16)  $B = \frac{2A}{h}$ ;  $b = 11$

17)  $18\text{ cm}^2$

18)  $v = \frac{m}{d}$

19)  $16.67\text{ cm}^3$

20) B

21) 6 min.

22)  $D = \left(\frac{P - 2112}{64}\right)$


23) 30 ft

# 3.8 Ratios and Rates

Oct. 20, 2006

Ratio of a to b is  $\frac{a}{b}$

Rate of a per b



ex1) a tennis team won  $16 - 10 = \underline{\underline{6}}$   
10 of their 16 matches.  
Find the Ratio of wins to losses.

$$\text{Ratio} = \frac{\text{wins}}{\text{losses}} = \frac{\cancel{10} 5}{\cancel{6} 3} = \underline{\underline{\frac{5}{3}}}$$

How to be said as a Rate.

5 wins per 3 losses

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Unit rate: a rate per  
one given unit.

\* 1 is in the Bottom of the fraction

ex2) you run 10 km in 50 min.  
what is your Average Speed,  
Given in km/min.

means Rate

$$\text{Unit Rate} = \frac{\text{km}}{\text{min}} = \frac{10 \text{ km}}{50 \text{ min}} = \underline{\underline{.2 \text{ km/min}}}$$

O.T.L.

① Pg 180-181 : 1-3(a),  
5-11(a), 13-19(o), 20, 21,  
23-27(o), 28

There are only 20 problems

② Notebooks Due Monday.