PERCENTAGE

Form 1 Regular Course
Vol 3

Part 2 - Percentage change

1. The monthly salary next month $= 12000(1+15\%) = \$13800$

2. The price of the stock in March $= 10000(1+20\%)(1-20\%) = \$9600$

3. (a) The value $= 220000(1+10\%) = \$242000$

   (b) The value $= 242000(1-40\%) = \$145200$

4. Her weight last month $= \dfrac{52}{1+4\%} = 50\,\text{kg}$

5. Initial price $= \dfrac{99}{(1+10\%)(1-10\%)} \times 100\% = \$100$

6. (a) The amount that he needs to pay $= 45(1+10\%) = \$49.5$

   (b) The price of meal $= \dfrac{79.2}{1+10\%} = \$72$

Part 3 - Compare

1. Stanley's amount $= 5000(1+50\%)(1-30\%) = \$5250$

   The required percentage $= \frac{5000}{5250} \times 100\% = \frac{2000}{21}\%$

2. $B = (1+20\%)(20) = 24$

   $A = (1+10\%)(24) = 26.4$

3. (a) $A = 1.3B$, $B = 1.3C$

   $A = 1.69C$

   $A = (1+69\%)C$

   therefore, A is greater than C by 69%

   (b) $C = \frac{100}{169}A$

   $C = \left(1 - \frac{6900}{169}\%\right)A$

   therefore, C is lesser than A by $\frac{6900}{169}\% \approx 40.8\%$