ANSWER WORKSHEET 4

1. (i) $\dfrac{88}{100}$ = **88 %**

(ii) 50 % of 100 = $\dfrac{50}{\cancel{100}}$ x $\cancel{100}$ = **50**

2. (i) 0.78 = 0.78 x 100 % = **78%**

(ii) $1\dfrac{1}{8}$ = $\dfrac{9}{\cancel{8}_2}$ x $\cancel{100}^{25}$ % = $\dfrac{9\,X\,25}{2}$ = $\dfrac{225}{2}$ = **112.5%**

(iii) 1.456 = 1.456 x 100 % = **145.6 %**

(iv) $\dfrac{9}{10}$ = $\dfrac{9}{10}$ x 100% = **90%**

3. Method 1:

Total no: of students = 1500

No: of students late = 3 % of them

$$= 3 \% \text{ of } 1500$$

$$= \dfrac{3}{\cancel{100}} \text{ x } 15\cancel{00}$$

$$= 3 \text{ x } 15 = 45$$

Therefore, No: of students who are punctual = 1500 – 45 = **1455**

Method 2:

Percentage of students who were punctual for school = 100% – 3%

$$= 97\%$$

Therefore no: of students who were punctual for school = 97% × 1500

$$= \frac{97}{100} \times 1500$$

$$= 97 \times 15 = \textbf{1455}$$

4. New Salary = $2205

Percentage increase = 5%

We have New value = Final percentage X Old Value

Hence, Old value = $\dfrac{\text{New value}}{\text{Final Percentage}}$

$$= \frac{2205}{105/100} = \frac{\overset{21}{\overset{441}{\cancel{2205}}}\, X\, 100}{\underset{\underset{1}{\cancel{21}}}{\cancel{105}}} \qquad = 21 \times 100$$

$$= 2100$$

Hence original salary = **$ 2100**

5. Original length = 72cm

New length = 90cm

Hence increased length = 90 – 72

$$= 18\text{cm}$$

Hence percentage increase = $\dfrac{\overset{18}{\cancel{18}}}{\underset{18}{\cancel{72}}} \times \overset{25}{\cancel{100}}$ %

$$= \textbf{25 \%}$$

6. (i) $6\frac{3}{5}\% = \frac{33}{5}\%$

$$= \frac{33}{5 \times 100}$$

$$= \frac{33}{500}$$

(ii) $0.7\% = \frac{0.7}{100}$

$$= 0.007$$