

**Percentage****Lecture sheet – 1****Solution**

1)

a)  $34 \% = \frac{34}{100} = \frac{17}{50}$

Again,

$$34 \% = \frac{34}{100} = 0.34$$

b)  $89 \% = \frac{89}{100}$

Again,

$$89\% = \frac{89}{100} = 0.89$$

c)  $25 \% = \frac{25}{100} = \frac{1}{4}$

Again,

$$25 \% = \frac{25}{100} = 0.25$$

d)  $42 \% = \frac{42}{100} = \frac{21}{50}$

Again,

$$42 \% = \frac{42}{100} = 0.42$$

2.

a)  $0.54 = \frac{54}{100} = 54 \%$

b)  $\frac{21}{50} = \frac{21 \times 2}{50 \times 2} = \frac{42}{100} = 42\%$

c)  $0.3 = \frac{3}{10} = \frac{3 \times 10}{10 \times 10} = \frac{30}{100} = 30\%$

$$d) \frac{12}{25} = \frac{12 \times 4}{25 \times 4} = \frac{48}{100} = 48 \%$$

3.

a) 12 people is 60 % of 20 people.

*Rough*

$$12 = \square \% \text{ of } 20$$

$$\rightarrow 12 = \frac{\square}{100} \times 20$$

$$\rightarrow 12 = \frac{\square \times 20}{100}$$

$$\rightarrow 12 = \frac{\square}{5}$$

$$\rightarrow 12 \times 5 = \square$$

$$\rightarrow \square = 60$$

b) 150 % of 300 taka is 450 taka.

*Rough*

$$150 \% \text{ of } 300 = \square$$

$$\rightarrow \frac{150}{100} \times 300 = \square$$

$$\rightarrow \square = 450$$

c) 56 % of 75 grams is 42 grams.

*Rough*

$$56 \% \text{ of } \square = 42$$

$$\rightarrow \frac{56}{100} \times \square = 42$$

$$\rightarrow \square = \frac{42 \times 100}{56}$$

$$\rightarrow \square = 75$$