

$$1) \quad l \rightarrow 6.15 \text{ m} \quad 1.15 \text{ m}$$

$$b \rightarrow \frac{20}{100} b = 0.12 \cdot 1.12 b.$$

$$\text{Area} = l \cdot b$$

$$= (1.15 \times 1.12) \cdot b$$

$$= 1.28$$

$$= 2.28$$

$$2) \quad l \rightarrow 1.12 \text{ m}$$

$$b \rightarrow x + 1.12$$

$$\text{Area} = 1.40$$

$$\text{Area} = l \cdot b$$

$$1.40 = 1.12 \cdot (x + 1.12)$$

$$\frac{1.40}{1.12} = x + 1.12$$

$$= 1.40$$

$$1.12$$

$$x = 2.5 \text{ m}$$

$$3) \quad \text{let } y = 281$$

$$\text{Profit} = 50$$

$$\text{Profit} = \frac{50}{450} \times 100$$

$$= 11.11 \approx 11.1\%$$

$$15) \quad \text{Profit} = \frac{SP - CP}{CP} \times 100$$

$$SP = 175 \times 100$$

$$SP = 14$$

$$= 1228 \%$$

$$\approx 1225$$

$$5) \quad \text{Profit} = \frac{CP}{SP}$$

$$\frac{25}{100} = \frac{20 - x}{x}$$

$$x = 80 - 4x$$

$$x = \frac{80}{5} = 16$$

$$6) \quad 10\% \cdot 100 = 10$$

$$90 \times \frac{5}{100} = 4.5$$

$$SP = 90 - 4.5 = 85.5$$

$$7) \quad \text{Profit} = \frac{SP - CP}{CP}$$

$$\frac{20}{100} = \frac{SP - CP}{CP} \approx \frac{1}{5} = \frac{SP - CP}{CP}$$

$$\frac{25}{100} = \frac{SP - 3000 - CP + 3000}{CP} \approx \frac{1}{4} = \frac{SP - CP}{CP}$$

$$\frac{4}{5} = \frac{CP - 3000}{CP}$$

$$4CP = 5CP - 15000$$

$$CP = 15000$$

$$8) \quad \text{Loss} = \frac{CP - SP}{CP} \times 100$$

$$= \frac{x - 4.52 \times 100}{x}$$

$$= \frac{1}{3} \times 100$$

$$= \frac{1}{3} \times 100$$

$$= 33.33\%$$

$$g) \text{ gain } \% = \frac{SP - CP}{CP}$$

$$\frac{20}{5} = \frac{SP - 6}{6}$$

$$SP - 6 = \frac{6}{5}$$

$$SP = \frac{6}{5} + 6$$

$$\approx 7.2$$

$$\approx 6.$$

$$ii) \text{ kg buy} = 1 + \frac{10}{100} = 1.1 \text{ kg}$$

$$SP \text{ } 1 \text{ kg} = 1 - \frac{10}{100} = 0.9 \text{ kg}$$

$$1st \text{ } CP = \frac{2}{1.1}$$

$$SP = \frac{2}{0.9}$$

$$Profit = \frac{2}{0.9} - \frac{2}{1.1}$$

$$= 2 \frac{0.2}{0.49}$$

$$P\% = \frac{Profit \times 100}{CP}$$

$$\frac{100}{0.49} = \frac{0.2}{0.49} \times 1.1 \times 100$$

$$= \frac{22}{9} \times 100 \approx 22 \frac{2}{9} \%$$

$$=$$

$$b) \text{ Mixtu } 2. \frac{1}{4} \text{ keros}$$

$$CP = \frac{1}{2} P \text{ oil}$$

$$CP \text{ } 0.25 \text{ kP} = 0.125 P$$

$$= 0.125 P$$

$$SP = 1.25 P$$

$$Pr = 1.25 - 0.125 P$$

$$= 0.125 P$$

$$Profit = \frac{0.125 \times 100}{1.125}$$

$$= 11.11 \%$$

$$\approx 11.1 \%$$