

$$1 \quad 20 \times 1.2 \\ = \text{Rs } 20$$

$$2 \quad 175 - 125 = \text{discount} \\ = \text{Rs } 50$$

$$\frac{50}{175} = \text{discount \%} \\ = 0.2857$$

$$3 \quad 5136 - 4800 = 336$$

$$\frac{336}{5136} = \text{tax} \\ = 6.54\%$$

$$4 \quad 150 - 100 = 50$$

$$\frac{50}{150} = \text{discount}$$

$$\frac{1}{3} = 33\%$$

$$5 \quad x - x \times 1.1 = 495 \\ x = \frac{495}{1.1}$$

$$x = \text{Rs } 450$$

$$6 \quad 200 \times 15 = \text{Rs } 3000$$

$$3000 \times 1.05 = 3150$$

$$\frac{3150}{15} = \text{SP}$$

$$\text{Rs } 210 \text{ per kg} = \text{SP}$$

$$7 \quad -x - y + \frac{xy}{100} \%$$

$$-20 - 20 + \frac{20 \times 20}{100} \%$$

$$-40 + \frac{400}{100} \%$$

$$-40 + 4 = -36\%$$

$$100\% - 36\% = 64\%$$

$$= 0.64$$

$$5000 \times 0.64 = \text{SP}$$

$$\text{Rs } 3200 = \text{SP}$$

$$8 \quad 1800 - 600 = \text{Rs } 1200$$

profit of Rs 1200

$$800 - 1200 = -400$$

Loss of Rs 400

$$9 \quad \frac{\text{SP}}{\text{CP}} \times 0.9 =$$

$$\text{CP} \times 0.9 = 67.50$$

$$\text{CP} = \frac{67.5}{0.9}$$

$$\text{CP} = \text{Rs } 75$$

$$82.5 - 75 = 7.5$$

$$\frac{7.5}{82.5} = \%$$

$$= 9.1\%$$

$$10 \quad \frac{9.6}{9} = \text{Cost per apple}$$

$$= \text{Rs } 1.07$$

$$\frac{12}{11} = \text{Rs } 1.09$$

$$\text{Profit} = 1.09 - 1.07$$

$$= 0.02$$

$$\frac{0.02 \times 100}{1.09} = \text{Profit \%}$$

$$= 1.83\%$$

$$11 \quad 650 - 585 = 65$$

$$\frac{65}{650} = 10\%$$

$$1600 - 1200 = 400$$

$$\frac{400}{1600} = 25\%$$

$$12 \quad \text{CP} \times 0.7 = 2310$$

$$\text{CP} = \frac{2310}{0.7} = \text{Rs } 3300$$

$$\text{CP} \times 1.25 = 5200$$

$$\text{CP} = \frac{5200}{1.25} = \text{Rs } 4160$$