

Name: _____ Class: _____ Div: _____ Roll No: _____

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$$1) \quad 200 \times \frac{25}{100} = 50$$

$$x = \frac{40 \times 80}{100}$$

$$2) \quad \frac{40}{100} \times x = 80$$

$$x = \frac{80 \times 100}{40}$$

$$= 200$$

$$3) \quad \frac{50 + 15}{2} \times 20$$

$$= 18$$

$$4) \quad x = 100 \times \frac{20}{100}$$

$$= 20$$

$$5) \quad x = 40 \times \frac{100}{30}$$

$$= 300$$

$$6) \quad 250 - 200 = 50$$

$$\frac{50}{200} \times 100 = 25\%$$

$$7) \quad \frac{10000 \times 25}{100000}$$

$$8) \quad \frac{2000 \times 10}{10000} = 20\%$$

$$9) \quad \frac{100 \times 20}{300} = 20\%$$

$$10) \quad \frac{GP}{CP} = \frac{15}{20}$$

$$L = \frac{5}{20} \times 100 = 25\%$$

$$11) \quad 400 \times \frac{30}{100} = 120$$

$$\frac{40 \times 300}{100} = 12$$

$$12) \quad \frac{2000 \times 100}{5000} = 40\%$$

$$13) \quad A = 10 + \frac{20}{100} \times 100$$

$$= 120$$

$$\text{diff} = 120 - 100$$

$$= 20$$

$$B = \frac{20}{100} \times 100$$

$$B = 20\%$$

$$14) \quad p \times q = \frac{125 \times p \times q}{100}$$

$$q' = \frac{100}{125} q$$

$$q - q' = 0.2q = 20\%$$

$$15) \quad L + A = 100$$

$$A = \frac{40 \times 100}{100} + 100$$

$$= 140$$

$$A - B = 40$$

$$B = 90 \times \frac{100}{100}$$

$$= 25.56\%$$

$$16) \quad \text{let initial price} = 20\%$$

$$120 \times \frac{10}{100} = 12$$

$$120 - 12 = 108$$

$$100 - 108 = 8$$

$$\frac{8}{100} \times 100 = 8\%$$

$$17) \quad P + N = 100$$

$$30\% = 130$$

$$120 \times \frac{20}{100} = 24$$

$$130 - 24 = 104$$

$$104 - 100 = 4$$

$$4 \times \frac{100}{100} = 4\%$$

$$18) \quad P = 100$$

$$25\% = 125$$

$$125 \times \frac{20}{100} = 25$$

$$\frac{100}{100} \times 100 = 0$$

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$$19) \text{ Price} = 100 \\ \text{P} + \text{G} = 140 \\ 140 \times \frac{30}{100} = 42 \\ 140 - 42 = 98 \\ 100 - 98 = 2 \\ 2 \times 100 = 2\%$$

$$20) 20\% = 120 \\ 120 \times \frac{10}{100} = 12 \\ 12 \times 8 \times 100 = 57.6\%$$

$$21) \text{ CP} + \text{CP} = 100 \\ \text{SP} = 125 \\ \text{Profit} = \frac{\text{SP} - \text{CP}}{\text{CP}} \times 100$$

$$\text{CP} + \text{CP} = \text{SP} \times 10 \\ \frac{100}{2} = \frac{125 \times 100}{100} \\ = 125\%$$

$$22) \text{ Y. MP} = \frac{10 \times 500}{100} = 50 \\ \text{SP} = \text{MP} - 50 = 450$$

$$\text{SP} = \text{CP} + \text{H.P.} \\ 450 = \text{CP} + \frac{8\%}{100} \times \text{CP} \\ = \frac{108}{100} \text{CP} \quad \text{CP} = 450 \times \frac{100}{108} = 416.67$$

$$23) \text{ Profit} = 20\% \text{ of CP} \\ \text{SP} = \text{CP} + \text{P} \\ = \text{CP} + \frac{20}{100} \text{CP} \\ \text{SP} = \frac{120}{100} \text{CP} \\ \text{CP} = \frac{100}{120} \text{SP} \\ \text{Profit} = \frac{20}{100} \times \frac{100}{120} \text{CP} \\ = \frac{1}{6} \text{CP} \\ = 216.67 \text{ CP}$$

$$24) \frac{\text{SP} - \text{CP}}{\text{CP}} \times 100 = 20 \\ \frac{120 - 100}{100} \times 100 = 20\%$$

$$25) \frac{130 - 100}{100} \times 100 = 30\%$$

$$26) A = 120 \\ B = \frac{120 \times 100}{100} = 120$$

$$27) \frac{b}{g} = \frac{3}{2}$$

$$b = \frac{3}{2} \times 100 = 150$$

$$28) \frac{50000 \times 100}{200000} = 25\%$$

$$29) 65 - 35 = 30\% \\ 30\% \times 3000 = 900 \\ 1 \text{ V} = \frac{900}{30}$$

$$65\% = 100 \times 65 = 6500$$

$$30\% = 100 \times 30 = 3000 \\ 35 - 3000 = 3500$$

$$30) \text{ Initial price} = 100 \\ 90\% = 70\% \\ \frac{90}{100} \times 100 = 90 \\ \approx 60\%$$

$$31) \text{ Price} = 100 \\ 50\% = 150 \\ 150 \times \frac{50}{100} = 75 \\ 150 - 75 = 75 \\ \frac{75}{100} \times 100 = 75\%$$

$$32) A = 120 \\ B = \frac{120 \times 100}{100} = 120$$

$$33) n = \frac{300 \times 100}{30} = 1000$$

$$300 \times \frac{60}{100} = 180$$

$$25\% = 5000$$

$$1\% = \frac{5000}{25} = 200$$

$$75\% = 75 \times 200 = 15000$$

$$100\% = 15000 + 5000 = 20000$$

$$100 \rightarrow 120 \text{ rs.}$$

$$1 \text{ l.} \quad 1 \text{ l.}$$

$$x \cdot \frac{x}{1} = \frac{5}{120}$$

$$x^2 = \frac{5}{120}$$

$$x = \sqrt{\frac{5}{120}} = 0.0645$$

$$= 1.7$$

$$\approx 16.07\%$$

$$A \text{ 20\%} = 120$$

$$120 \times \frac{100}{100} = 120$$

$$120 - 12 = 108$$

$$108 - 100 = 8$$

$$\frac{8 \times (100 - 8\%)}{100}$$

$$\frac{80 \times 125}{100} = 100$$

$$= 0$$

$$SP = 20 + 400$$

$$= 420$$

$$= 400$$

$$34) 10\% = 110$$

$$\frac{110 \times 10}{100} = 11$$

$$110 - 11 = 99$$

$$\frac{99 \times 100}{100 - 1} = 100$$

$$40) 40\% = 220$$

$$1\% = \frac{220}{40} = 5.5$$

$$100\% = 100 \times 5.5 = 550$$

$$= 60$$

$$41) 40\% = 18000$$

$$1\% = \frac{18000}{40} = 450$$

$$100\% = 100 \times 450 = 45000$$

$$42) 130$$

$$120 \times \frac{30}{100} = 36$$

$$130 - 36 = 94$$

$$94 - 100 = -6\%$$

$$43) = 1000 \times \frac{10}{100}$$

$$= 1100 \times \frac{10}{100}$$

$$= 12100 \times \frac{10}{100}$$

$$= 13310$$

$$44) \frac{15A}{100} = \frac{20B}{100}$$

$$\frac{A}{B} = \frac{20 \times 100}{15 \times 100} = \frac{4}{3}$$

$$45) P = 25 \times 800$$

$$P = 20000$$

$$P = 2000 + 8000 = 10000$$

$$46) P = \frac{25 \times 100}{100}$$

$$= \frac{2500}{250} = 10$$

$$P\% = 8 \times 100 = 800\%$$

$$47) P = \frac{5AP}{5A + 5P}$$

$$SP = \frac{20 \times 720}{100}$$

$$= 144 + 720$$

$$= 864$$

$$48) \frac{10 \times 1500}{100}$$

$$1500 - 150 = 1350$$

$$49) \frac{130 \times 90}{200 \times 100}$$

$$= \frac{117}{100}$$

$$= 117\%$$

$$117\% = 1.17$$