University BORAMA

Faculty:social work...... ID: ...1040.....

Individual Assignment – 30 Marks

Submission Date: 05-05-2025

Answers:

- 1. 12:16 in simplest form = 3:4
- 2. Divide \$120 in the ratio 2:3:
- Total parts = 5
- $-\$120 \div 5 = \24
- -2 parts = \$48, 3 parts = \$72
- 3. Ratio of cats to dogs is 4:7, 28 dogs? cats = $(4/7) \times 28 = 16$ cats
- 4. \$240 for 8 hours ? pay per hour = $$240 \div 8 = 30
- 5. Are 6:9 and 8:12 proportional? Yes, both simplify to 2:3
- 6. 3 shirts = \$45 ? 5 shirts = $(5/3) \times \$45 = \75
- 7. 12 pens cost \$10 ? 1 pen = $10 \div 12 = 0.83$ (approx.)
- 8. A class has 18 boys and 12 girls? ratio of boys to total = 18:30 = 3:5
- 9. 25% of $480 = (25/100) \times 480 = 120$
- 10. \$150 after 20% discount? original price = $$150 \div 0.8 = 187.50
- 11. 5% commission on $\$2,000 = 0.05 \times 2000 = \100
- 12. 60% of a number is 180 ? original number = $180 \div 0.6 = 300$
- 13. Simple Interest = $(1200 \times 5 \times 3) / 100 = 180
- 14. Compound Interest: $A = 2000 \times (1 + 0.10)^3 = $2,662$
- 15. Compound Interest: $A = 2000 \times (1 + 0.06)^2 = \$2,247.20$