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**Faculty: Accounting and finance**   
**Individual Assignment – 30 Marks**

1. **Express the ratio 12:16 in its simplest form.**  
   **Answer:** **3:4**
2. **Divide $120 in the ratio 2:3.**  
   **Answer:** Total parts = 2 + 3 = 5  
   Each part = $120 ÷ 5 = $24  
   So, 2 parts = $48 and 3 parts = $72  
   **$48 : $72**
3. **The ratio of cats to dogs is 4:7. If there are 28 dogs, how many cats are there?**  
   **Answer:**   
   **16 cats**
4. **If a person earns $240 for 8 hours, what is the rate per hour?**  
   **Answer:**   
   **$30 per hour**
5. **Are the ratios 6:9 and 8:12 proportional?**  
   **Answer:**  
   Yes  
   **Yes, they are proportional**
6. **If 3 shirts cost $45, how much would 5 shirts cost?**  
   **Answer:** 1 shirt = $15, so 5 shirts =   
   **$75**
7. **If 5 pens cost $10, how much do 12 pens cost?**  
   **Answer:** 1 pen = $2, so 12 pens =   
   **$24**
8. **A class has 18 boys and 12 girls. What is the ratio of boys to total students?**  
   **Answer:** Total students = 30  
   Ratio =   
   **3:5**
9. **Find 25% of 480.**  
   **Answer:**   
   **120**
10. **A jacket is sold for $150 after a 20% discount. What was the original price?**  
    **Answer:** Let original price be x.  
      
    **$187.50**
11. **A salesperson earns 5% commission on $2,000 sales. How much is that?**  
    **Answer:**   
    **$100**
12. **If 60% of a number is 180, what is the original number?**  
    **Answer:**  
    Let the number be x:   
    **300**
13. **Find simple interest on $1,200 at 5% per annum for 3 years.**  
    **Answer:**  
      
    **$180**
14. **$2,000 at 10% per annum compounded annually for 3 years. Total amount?**  
    **Answer:**  
      
    **$2662**
15. **Loan of $2,000 for 2 years at 6% p.a. Simple Interest. Total to repay?**  
    **Answer:**  
      
    Total =   
    **$2240**