# Math Assignment Answers

1. Express the ratio 12:16 in its simplest form:  
 12:16 = 3:4

2. Divide $120 in the ratio 2:3:  
 $48 and $72

3. Cats to dogs is 4:7. If 28 dogs, how many cats?  
 16 cats

4. $240 for 8 hours — rate per hour:  
 $30 per hour

5. Are 6:9 and 8:12 proportional?  
 Yes, both are 2:3

6. 3 shirts cost $45. Cost of 5 shirts:  
 $75

7. 5 pens cost $10. Cost of 12 pens:  
 $24

8. 18 boys, 12 girls. Ratio of boys to total:  
 3:5

9. Find 25% of 480:  
 120

10. Jacket sold for $150 after 20% discount. Original price:  
 $187.50

11. 5% commission on $2,000 sales:  
 $100

12. 60% of a number is 180. Original number:  
 300

13. Simple interest on $1,200 at 5% for 3 years:  
 $180

14. Compound interest on $2,000 at 10% for 3 years:  
 $2,662

15. Loan of $2,000 for 2 years at 6% — total repayment:  
 $2,240