Assignment: Maths Methods

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

Answer: 3:4

2. Divide $120 in the ratio 2:3:

Answer: $48 and $72

3. The ratio of cats to dogs is 4:7. If there are 28 dogs, how many cats?

Answer: 16 cats

4. If a person earns $240 for 8 hours, what is the rate of pay per hour?

Answer: $30 per hour

5. Are the ratios 6:9 and 8:12 proportional?

Answer: Yes, they are proportional

6. If 3 shirts cost $45, how much would 5 shirts cost?

Answer: $75

7. If 5 pens cost $10, how much do 12 pens cost?

Answer: $24

8. A class has 18 boys and 12 girls. What is the ratio of boys to the total number of students?

Answer: 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: $187.50

11. A salesperson earns a 5% commission on sales. If they sell goods worth $2,000, how much commission do they earn?

Answer: $100

12. If 60% of a number is 180, what is the original number?

Answer: 300

13. Find the simple interest on $1,200 at a rate of 5% per annum for 3 years:
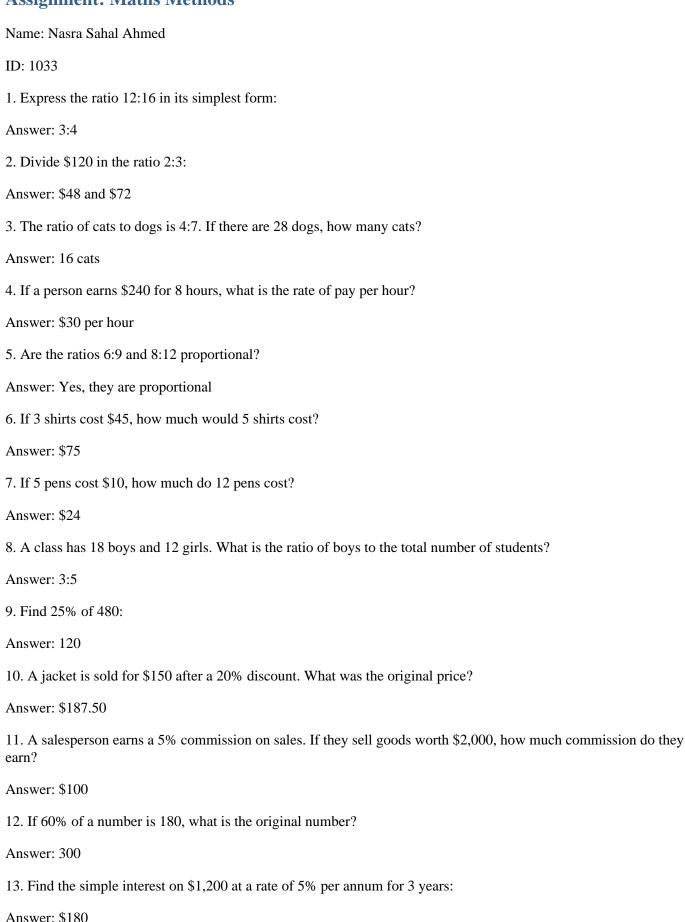
Answer: $180

14. A sum of $2,000 is invested at 10% per annum for 3 years compounded annually. Find the total amount:

Answer: $2,662

15. A loan of $2,000 is given for 2 years at a rate of 6% per annum. What is the total amount to be repaid at the end of the period?

Answer: $2,240