

IGCSE – Percentages/ratio/simple interest/compound interest

Oct 06 Paper 4

- 1 Maria, Carolina and Pedro receive \$800 from their grandmother in the ratio

Maria: Carolina: Pedro = 7:5:4.

- (a) Calculate how much money each receives. [3]
- (b) Maria spends $\frac{2}{7}$ of her money and then invests the rest for two years at 5% per year simple interest.
How much money does Maria have at the end of the two years? [3]
- (c) Carolina spends all of her money on a hi-fi set and two years later sells it at a loss of 20%.
How much money does Carolina have at the end of the two years? [2]
- (d) Pedro spends some of his money and at the end of the two years he has \$100.
Write down and simplify the ratio of the amounts of money Maria, Carolina and Pedro have at the end of the two years. [2]
- (e) Pedro invests his \$100 for two years at a rate of 5% per year **compound interest**.
Calculate how much money he has at the end of these two years. [2]
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May 02 Paper 4

- 1 (a) One day Amit works from 08 00 until 17 00.
The time he spends on filing, computing, writing and having lunch is in the ratio

Filing: Computing: Writing: Lunch = 2: 5 : 4 : 1.

Calculate the time he spends

- (i) writing, [1]
- (ii) having lunch, giving this answer in minutes. [1]
- (b) The amount earned by Amit, Bernard and Chris is in the ratio 2 : 5 : 3.
Bernard earns \$855 per week.
Calculate how much
- (i) Amit earns each week, [1]
- (ii) Chris earns each week. [1]
- (c) After 52 weeks Bernard has saved \$2964.
What fraction of his earnings has he saved? [2]
Give your answer in its lowest terms.
- (d) Chris saves \$3500 this year. This is 40% more than he saved last year.
Calculate how much he saved last year. [3]