

ARITHMETIC (Q 1, PAPER 1)

2009

- 1 (a) Conor and Alice share 50 apples in the ratio 3:7.
- (i) How many apples does Conor get?
 - (ii) How many apples does Alice get?
- (b) Barbara works 35 hours a week and she is paid €12.60 per hour.
- (i) Find her total weekly pay.
 - (ii) Barbara pays tax at the rate of 20% on all her income and has weekly tax credits of €53. Calculate her weekly take-home pay.
 - (iii) In one particular week, Barbara worked 4 additional hours at the same rate of pay. By how much did her take-home pay increase that week?
- (c) €7500 was invested for 2 years at $r\%$ per annum compound interest.
- (i) The amount of the investment at the end of the first year was €7860. Find the value of r .
 - (ii) At the start of the second year € X was withdrawn from the account. The interest earned during the second year was €252. Find the value of X .

ANSWERS

- | | | | |
|---|--------------|--------------|--------------|
| 1 | (a) (i) 15 | (ii) 35 | |
| | (b) (i) €441 | (ii) €405.80 | (iii) €40.32 |
| | (c) (i) 4.8% | (ii) €2610 | |