



**Maths
Junior Certificate
Higher Level**

**Past Exam Questions on
Ratios**

Q1 Part (a) 2011 Paper 1

1. (a) Peter and Anne share a lotto prize in the ratio $3\frac{1}{2}$ to $2\frac{1}{2}$.
Peter's share is €35 000.



✍ What is the total prize fund?

Q2 Part (c) 2009 Paper 1

- (c) Three business partners, Aideen, Brian and Caroline, invest €30 000, €40 000 and €70 000 respectively. At the end of each year, 22.5% of the profit made is placed in reserve and the remainder is divided among the partners in proportion to their investments.
- (i) *✍* Given that in 2007, the profit amounted to €12 880, calculate the amount placed in reserve.
- (ii) *✍* In 2008, Caroline's portion of the profit was €9331. Calculate how much Aideen and Brian each received in 2008.
- (iii) *✍* Calculate the amount placed in reserve in 2008.

Q2 Part (b) 2008 Paper 1

- (b) Two brands of blackcurrant squash drinks contain concentrated juice and sugar.
In brand A, the ratio of concentrated juice to sugar is 19:1.
In brand B, the ratio of concentrated juice to sugar is 9:1.

(i) ✍ What is the volume of concentrated juice in
500 ml of brand A?

(ii) ✍ What is the volume of sugar in
300 ml of brand B?

500 ml of brand A is mixed with 300 ml of brand B.

(iii) ✍ What is the ratio of the concentrated juice to the sugar in the mixture?

