

## 5.6 Key Concepts 2 Ratios in Simplest Form Worked Example

**Example:** The final evaluation for an accounting course consists of 30 marks for a written exam, 45 marks for a research project, and 15 marks for calculation skills. What is the ratio of the marks for calculation skills to the total number of marks, in simplest form?

**Solution:** The total number of marks allotted is  $30 + 45 + 15 = 90$ . The ratio of calculation skills to total marks is  $15 : 90 = 1 : 6$ .

**Practice:**

1. A recipe for pizza dough in a restaurant calls for 27 kg of flour, 12 kg of water, and 3 kg dried eggs. What is the ratio of dried eggs to dough, in simplest form?

2. The crew complement for a cruise ship consists of 12 officers, 32 sailors, and 64 stewards. What is the ratio of sailors to crew, in simplest form?

Answers: 1. 1:14. 2. 8:27.