

# Ratio — Full Revision

Name:

Date:

**INQUIRY**

**Ratios, proportion and scale connect mathematics to cooking, maps, sharing, and design.**

Discuss with your partner. Write your initial ideas below:

## Key Vocabulary

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Term	Definition
Ratio	Comparison of quantities a:b.
Proportion	Equal ratios.
Scale	Ratio between model/drawing and reality.

## Full Revision (28 marks)

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1. Simplify 24:36:48. [2 marks]

Show your working:

2. Share 270 yuan in ratio 2:3:4. [3 marks]

Show your working:

**3.** 5 kg of rice costs 40 yuan. Cost of 8 kg? [2 marks]

Show your working:

**4.**  $y$  is proportional to  $x$ . When  $x=3$ ,  $y=21$ . Find  $y$  when  $x=8$ . [2 marks]

Show your working:

**5.** Scale 1:25,000. Map distance 12 cm. Real distance in km? [2 marks]

Show your working: