

# Master Maths 9 Worksheet 11

## Ratio

# 11

**Name:** \_\_\_\_\_

1. If the following quantities are divided into the given number of parts, find the size of each part.

(a) \$45 divided into 9 parts

(b) 660 kg divided into 3 parts

(c) 72 m divided into 12 parts

2. Abbey and Casey divided \$80 so that Abbey received 3 parts and Casey received 1 part.

(a) What is the size of each part?

(b) How much did each receive?

Abbey

Casey

3. Divide the following amounts into the given ratios.

(a) \$36 in the ratio 3:1

--	--

(b) \$80 in the ratio 7:1

--	--

(c) 64 kg in the ratio 5:3

--	--

(d) 54 m in the ratio 4:5

--	--

(e) \$400 in the ratio 5:3

--	--

(f) 720 kg in the ratio 2:7

--	--

(g) \$810 in the ratio 5:4

--	--

4. Write the following amounts as ratios in their simplest form.

(a) \$56 : \$72    (b) 24 m : 72 m    (c) \$27 : \$90




5. Sand and cement need to be mixed in the ratio of 5:1.

(a) What fraction of the final mix is sand?

(b) What fraction of the final mix is cement?

6. In a science experiment a solution of acid and water is mixed so that 20% of the solution was acid.

What is the ratio of acid to water in the solution?

7. In a climbing club there were 50 people. 15 of these were girls.

What is the ratio of girls to boys in the club?

8. A farmer was mixing rye and clover seed in the ratio 2:5 to plant in his paddocks.

(a) If he needed a total of 280 kg of seed, how many kg of each variety would he need?

Rye

Clover

(b) If he used 50 kg of rye seed, how many kg of clover would he need to make a mixture with this ratio?

(c) The farmer had 200 kg of rye and clover mixture in the ratio 1:3. He wanted to add one type of seed to make this ratio 2:5. What seed would he need to add and how many kg of this seed would be needed?

Seed type

Amount