



S1

CfE Level 3

Working at Home Workbook

Ratio

<b>Learning Intention. To be able to -</b>	<b>Periods</b>
Compare different quantities using ratio	1
Simplify any given ratio as far as possible	2
Determine a missing quantity, knowing the other.	2

## Compare different quantities using ratio

### Exercise 1

#### Question 1

Write down the ratio of a) tomatoes : onions

b) onions : tomatoes



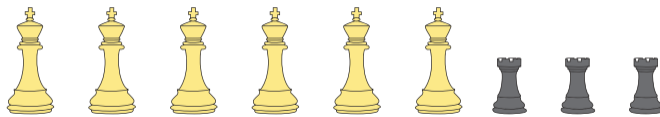
Write down the ratio of a) cups : glasses

b) glasses : cups



Write down the ratio of a) kings : rooks

b) rooks : kings



Write down the ratio of a) mobiles : binoculars

b) binoculars : mobiles



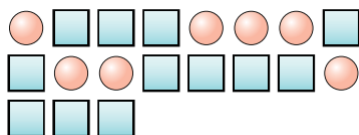
Write down the ratio of a) hearts : moons

b) moons : hearts



Write down the ratio of

a) squares : total shapes b) circles : total shapes



## Simplify any given ratio as far as possible

Simplify the following ratios

Ex)  $10:4$   $\underline{5:2}$

1)  $27:63$  \_\_\_\_\_

2)  $27:9$  \_\_\_\_\_

3)  $6:4$  \_\_\_\_\_

4)  $6:48$  \_\_\_\_\_

5)  $6:10$  \_\_\_\_\_

6)  $3:15$  \_\_\_\_\_

7)  $72:40$  \_\_\_\_\_

8)  $48:30$  \_\_\_\_\_

9)  $12:16$  \_\_\_\_\_

10)  $35:40$  \_\_\_\_\_

11)  $28:7$  \_\_\_\_\_

12)  $56:80$  \_\_\_\_\_

13)  $3:27$  \_\_\_\_\_

14)  $4:8$  \_\_\_\_\_

15)  $70:7$  \_\_\_\_\_

16)  $80:30$  \_\_\_\_\_

17)  $54:12$  \_\_\_\_\_

18)  $28:49$  \_\_\_\_\_

19)  $42:36$  \_\_\_\_\_

20)  $90:40$  \_\_\_\_\_

## Determine a missing quantity, knowing the other.

- 1) A classroom had 35 glue sticks. If the ratio of glue sticks to glue bottles was  $5:2$ , how many glue bottles did the classroom have?
- 2) A student finished 8 of her homework problems in class. If the ratio of problems she finished to problems she still had left was  $4:1$ , how many homework problems did she have total?

- 3) On a Saturday, a library checked out 52 books. If 24 of the books were fiction, what is the ratio of non-fiction books to fiction books checked out?
  
- 4) A recipe called for the ratio of sugar to flour to be 10 : 3. If you used 70 ounce of sugar, how many ounces of flour would you need to use?
  
- 5) At a bake sale there were 72 raisin cookies sold. If the ratio of raisin cookies sold to oatmeal cookies sold was 9 : 1, what is the combined amount of raisin and oatmeal cookies sold?
  
- 6) Kaleb had 136 songs on his MP3 player. If he deleted 56 songs, what is the ratio of songs he kept to songs he deleted?
  
- 7) The ratio of red cars to blue cars in a parking lot was 5 : 3. If there were 40 red cars, how many blue cars were there?
  
- 8) A produce store sold 63 red apples. If the ratio of red apples to green apples sold was 7 : 2, what is the combined amount of red and green apples sold?
  
- 9) For homework, a student had to complete 15 problems total. If she finished 6 problems in class, what is the ratio of problems she still needs to complete to problems that she's already finished?
  
- 10) At a farm the ratio of cows to horses was 9 : 2. If there were 72 cows at the farm, how many horses were there?