## **Building Blocks - Combining Ratios**

Block

7

Block

 $\boldsymbol{\omega}$ 

Block

Use equivalent ratios to find the missing information.

: 72

a) 3:4

15:

b) 7:9

c) 36:100 d)

9:

: 13

56:52

Simplify the ratios

a) 12:22

c) 48:27

b) 64:40

d) 63:210

Given that x: y = 4:1 and y: z = 1:7

Find the ratio x : y : z

Given that a:b=9:1 and b:c=2:5

Find the ratio a : b : c

A bag contains red, blue and yellow counters such that

red: blue = 2:3blue : yellow = 6 : 5

The number of red counters in the bag is 24.

Calculate the total number of counters in the bag.

Given that  $\frac{a}{b} = \frac{3}{5}$  and  $\frac{b}{c} = \frac{2}{7}$ , find a : b : c

A box contains only red, blue and green pens.

The ratio of red pens to blue pens is 5:4.

The ratio of blue pens to green pens is 3:7.

Calculate the percentage of pens that are blue.

A zoo counts its animals.

The ratio of antelope to snakes is 2:7

The ratio of monkeys to snakes is 3:4

There are 26 more monkeys than antelope. Work out the number of snakes in the zoo.

## **Building Blocks - Combining Ratios**

\_ Block

7

Block

Use equivalent ratios to find the missing information.

a) 3:4

15:20

b) 7:9

c) 36:100

d) 14:13

**56**: 72

9:25

56:52

Simplify the ratios

a) 12:22 6:11

c) 48:27 16:9

b) 64:40 8:5

d) 63:210 3:10

90

Given that x: y = 4:1 and y: z = 1:7

Find the ratio x : y : z

4:1:7

Given that a:b=9:1 and b:c=2:5

Find the ratio a : b : c

18:2:5

A bag contains red, blue and yellow counters such that

red: blue = 2:3

blue : yellow = 6 : 5

The number of red counters in the bag is 24.

Calculate the total number of counters in the bag.

Given that  $\frac{a}{b} = \frac{3}{5}$  and  $\frac{b}{c} = \frac{2}{7}$ , find a : b : c 6:10:35

a: b = 3:5 b: c = 2:7

A zoo counts its animals.

The ratio of antelope to snakes is 2:7

The ratio of monkeys to snakes is 3:4

There are 26 more monkeys than antelope. Work out the number of snakes in the zoo.

8:28:21

56 snakes

 $\boldsymbol{\omega}$ Block

A box contains only red, blue and green pens.

The ratio of red pens to blue pens is 5:4. 15:12:28

The ratio of blue pens to green pens is 3:7.

Calculate the percentage of pens that are blue. 21.8%