

N.NS5 Ratio



3 grey = 2 black + 1 white



black : white
2:1

ratio

Exercise 1

black	white
2	1
10	2
	15
15	

grey	black	white
30		
45		
75		
120		
141		

7 grey = 2 black + 5 white



black : white
2:5

ratio

Exercise 2

black	white
2	5
15	20
	15
15	

grey	black	white
35		25
42		
140		
357		

Equivalent ratios



Equivalent ratio

2:1 = 4:2 = 6:3 = 8:4 = 100:50 = 72:36

2:3 = 4:6 = 6:9 = 8:12 = 50:75 = 24:36

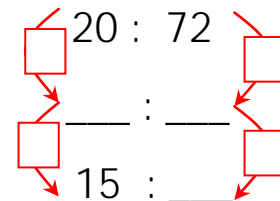
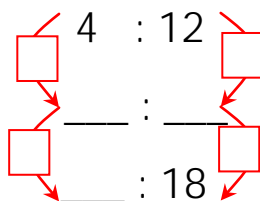
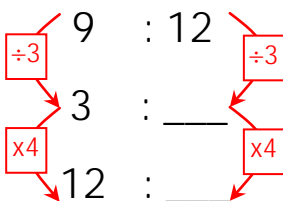
Exercise 3

4:1 = 8 : ___ = 20 : ___ = ___ : 3 = ___ : 7

4:3 = 8:6 = 20 : ___ = ___ : 30 = ___ : 27

5:3 = 10:6 = 20 : ___ = ___ : 12 = ___ : 27

4:7 = 8 : ___ = 20 : ___ = ___ : 63 = ___ : 21

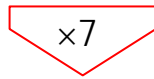


Dividing in a ratio

Divide 35 in the ratio 2 : 3

2 : 3

$2 + 3 = 5$



$35 \div 5 = 7$

14 : 21

$(14 + 21 = 35)$

Exercise 4

Divide 90 in the ratio 4 : 5

4 : 5

___ + ___ = ___



(_____)

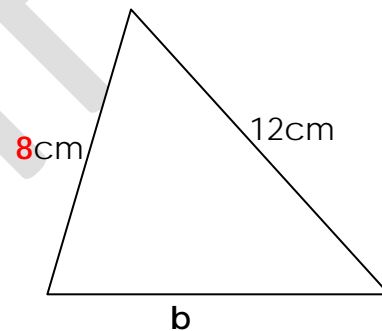
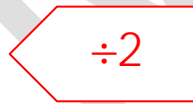
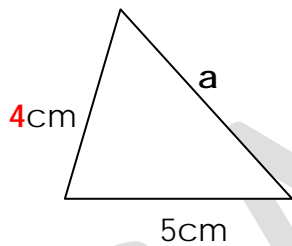
Divide 65 in the ratio 2 : 3 _____

Divide 140 in the ratio 4 : 3 _____

Divide 900 in the ratio 2 : 3 : 4 _____

Divide 80 in the ratio 2 : 3 : 5 _____

Enlargement (congruent triangles)

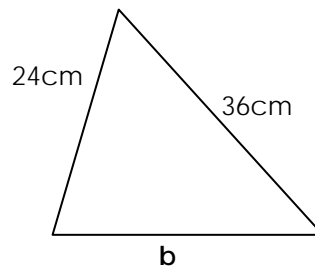
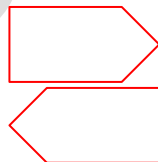
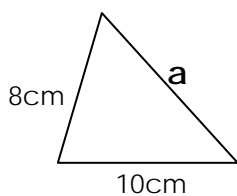


$8 \div 4 = 2$

$b = 5 \times 2 = \underline{10 \text{ cm}}$

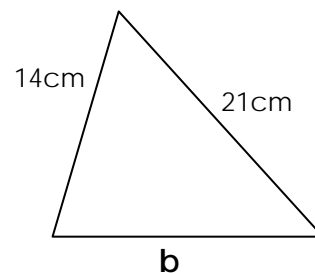
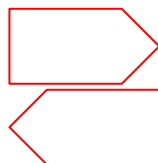
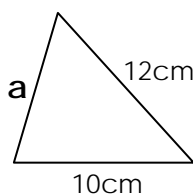
$a = 12 \div 2 = \underline{6 \text{ cm}}$

Exercise 5



$a = \underline{\hspace{2cm}}$

$b = \underline{\hspace{2cm}}$



$a = \underline{\hspace{2cm}}$

$b = \underline{\hspace{2cm}}$