

WEEK: 22

Week Beginning: (17/08/20)

Subject: MATHS

Year: 5

Lesson Objective:

- Introduction to Ratio
- Understand what ratio means and how to construct ratios
- Be able to simplify ratios and begin to understand sharing ratio

Class Worksheets

- Ratio questions

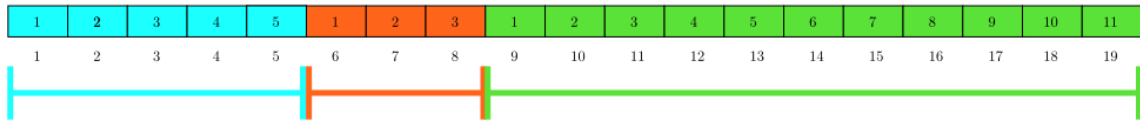
Homework

- Continue to work on Ratios

Additional Notes

- All lesson worksheets and **homework for next week (due Week 23)** worksheets can be found below
- Week 21 homework will be marked in lesson hence make sure it is fully complete

Please print 2 a page or open this document during the lesson to save paper!



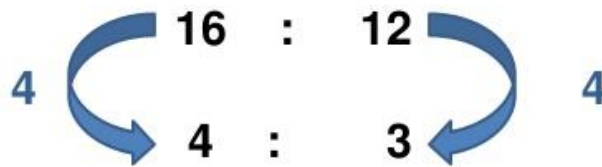
5 : 3 : 11 Ratio

$\frac{5}{19}$ $\frac{3}{19}$ $\frac{11}{19}$ Fraction

Simplifying Ratios – Example 2

Simplify the Ratio 16 : 12

Divide both our number values by the GCF of 4.



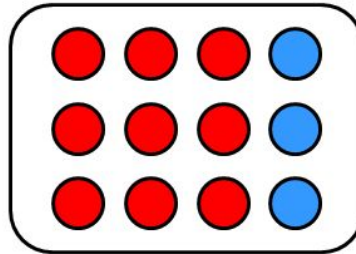
The simplified Ratio Answer is 4 : 3 ✓

Ratios

Simplifying a ratio ?

For example,


What is the ratio of red counters to blue counters?



$$\begin{array}{l} \text{red : blue} \\ = 9 : 3 \\ \div 3 \quad \left(\qquad \right) \quad \div 3 \\ = 3 : 1 \end{array}$$

For every **three red counters** there is **one blue counter**.

Express the following ratios in their simplest forms.

2 to 10	10 to 30	
12 to 24	3 to 30	9 to 27
4 to 2	11 to 44	10 to 70
15 to 45	12 to 60	24 to 72
50 to 150	30 to 300	200 to 40
120 to 360	70 to 35	75 to 300

Divide 24 in the ratio 5 : 1



Divide 30 in the ratio 1 : 4

Divide 33 in the ratio 9 : 2

Divide 72 in the ratio 5 : 4

Divide 80 in the ratio 3 : 7

Divide 39 in the ratio 8 : 5

Divide 68 in the ratio 8 : 9

Divide 70 in the ratio 2 : 5

Divide 60 in the ratio 2 : 10

Fill in the blanks to make the ratios equivalent.

$14 : 49 = 28 : \square$

$19 : 18 = 95 : \square$

$200 : 600 = \square : 150$

$244 : 360 = \square : 180$

$12 : \square = 30 : 60$

$36 : 24 = 30 : \square$

$25 : 10 = \square : 30$

$30 : \square = 15 : 50$

$15 : 40 = 45 : \square$

$15 : 100 = 60 : \square$

$13 : \square = 91 : 350$

$120 : 600 = \square : 25$

$17 : \square = 68 : 248$

$40 : 50 = 20 : \square$

Fill in the blanks to make the ratios equivalent.

$12 : 36 = 21 : \square$

$10 : 24 = 40 : \square$

$100 : 600 = \square : 300$

$220 : 240 = \square : 120$

$1.2 : \square = 30 : 150$

$3.6 : 0.6 = 12 : \square$

$2.5 : 10 = \square : 200$

$90 : \square = 18 : 20$

$15 : 80 = 60 : \square$


$12 : 100 = 60 : \square$

$12 : \square = 36 : 150$

$100 : 500 = \square : 0.25$

$13 : \square = 52 : 392$

$30 : 40 = 48 : \square$

4 to 10	15 to 30	
20 to 24	6 to 30	9 to 18
8 to 2	22 to 44	10 to 25
12 to 36	15 to 60	36 to 72
50 to 200	35 to 140	120 to 40
100 to 350	40 to 35	25 to 100

Divide the following numbers in the given ratios.

Divide 20 in the ratio 4 : 1



Divide 16 in the ratio 1 : 3

Divide 32 in the ratio 5 : 3

Divide 63 in the ratio 5 : 4

Divide 40 in the ratio 1 : 9

Divide 36 in the ratio 3 : 9

Divide 34 in the ratio 8 : 9

Divide 39 in the ratio 2 : 11

Divide 60 in the ratio 3 : 9

For a fruit punch I need 100 fruits. 12 apples, 15 oranges, 15 bananas, 40 pineapples and the rest mangos.

The ratio apples to bananas is _____

The ratio oranges to mangos is _____

The ratio pineapples to bananas is _____

The ratio apples to the total fruits is _____

The ratio mangos to the total fruits is _____

The ratio apples and oranges to the total fruits is _____



I have 60 marbles in a jar. 12 of them are red, 15 are blue, 18 are yellow, and the rest are purple.

The ratio blue to yellow marbles is _____

The ratio blue to purple marbles is _____

The ratio red to blue marbles is _____

The ratio purple marbles to the total marbles is _____

Homework: Complete any questions remaining from lesson.