

Ratios

February 5, 2019 11:18 AM

Answers have **No** units

Ratio - a comparison of 2 or more amounts of the same topic
- order matters
- reduce by \div by a common factor *ALWAYS*
- two types

Ratio Notation

vs

Fraction Notation

uses a colon to separate
can compare 2 or more
11:3:8

uses fractions
only compares 2
do not change Improper F.

ex: 5:3 \longrightarrow same as $\frac{5}{3}$
first item
Numerator (top)

1. Solve using Ratio Notation: Your judo class has 27 students.

a) Write the ratio of brunettes to other hair colours if 14 students are brunette.

$$27 - 14 = 13$$

br : other
14 : 13

can't reduce because both values can not be \div by the same number.
14:13

b) If 7 students have black belts and 14 have yellow belts, what is the ratio of yellow to black?

y : b

can reduce $\frac{14}{7} : \frac{7}{7}$

2 : 1

c) 3 new students join your class. They all are green belts. What is the ratio of yellow to black and green to total?

all y : b + g : all

$$14 : 7 + 3 : 27 + 3$$

Reduce $\frac{14}{2} : \frac{10}{2} : \frac{30}{2}$

7 : 5 : 15