

Ratios, Rates & Percent

6th Grade

Ratio, unit rate and percent as three views of the same relationship.

RATIO — how many of one for each of the other

3 : 5 · 3 to 5 · 3/5

Three red for every five blue. Eight counters in total, not eight of each.



part : part = 3 : 5 part : whole = 3 : 8

EQUIVALENT RATIOS & UNIT RATE

kilometres

3

6

9

12

minutes

20

40

60

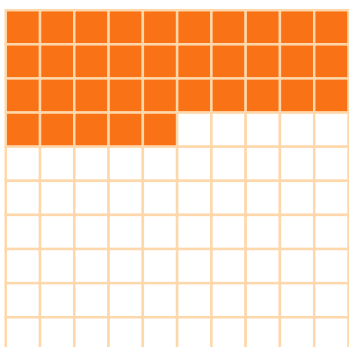
80

Unit rate:

3 km in 20 min
= 9 km per hour

Multiply both quantities by the same number and the relationship is unchanged.

PERCENT = OUT OF 100



35 shaded out of 100

= 35% = 0.35 = 35/100 = 7/20

To find a percent of a number, turn the percent into a decimal and multiply: 35% of 60 = $0.35 \times 60 = 21$.

BENCHMARKS WORTH KNOWING BY HEART

10%

÷ 10

75%

half + a quarter

25%

÷ 4

1%

÷ 100

50%

÷ 2

20%

÷ 5