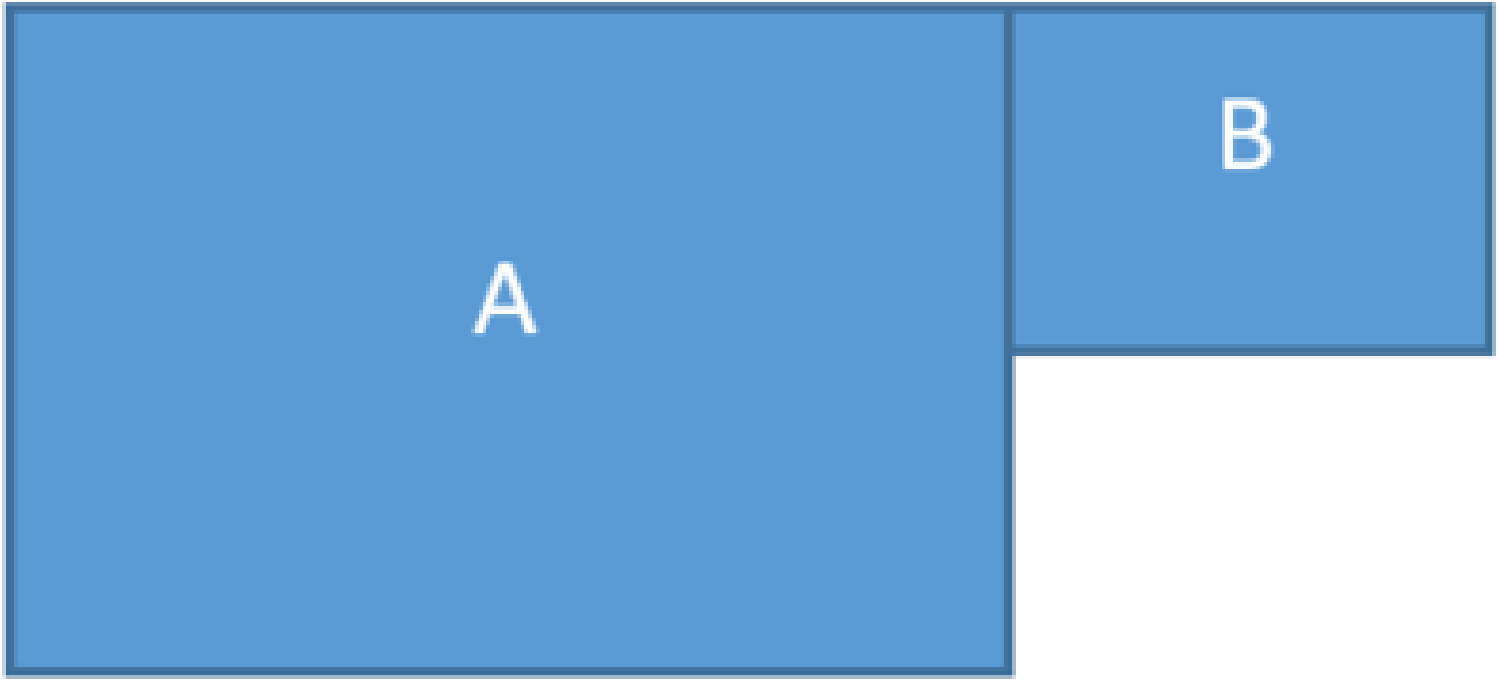
Additive

Total Area = (Area of A) + (Area of

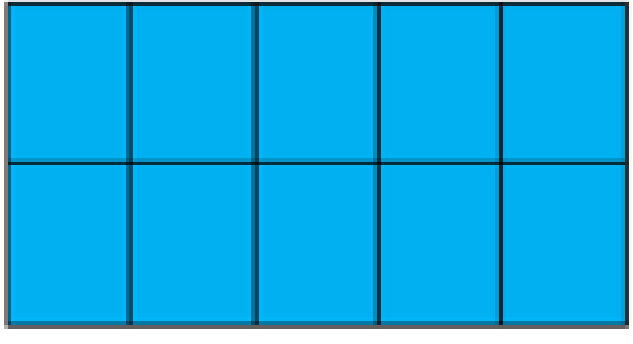


Area

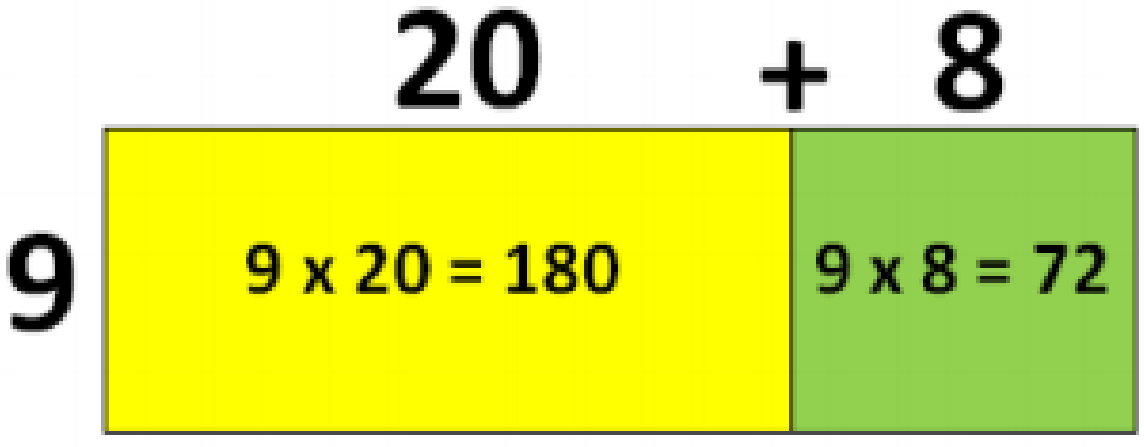
2 rows of 5 = 10 square units

or

$2 \times 5 = 10$ square units



Area Model



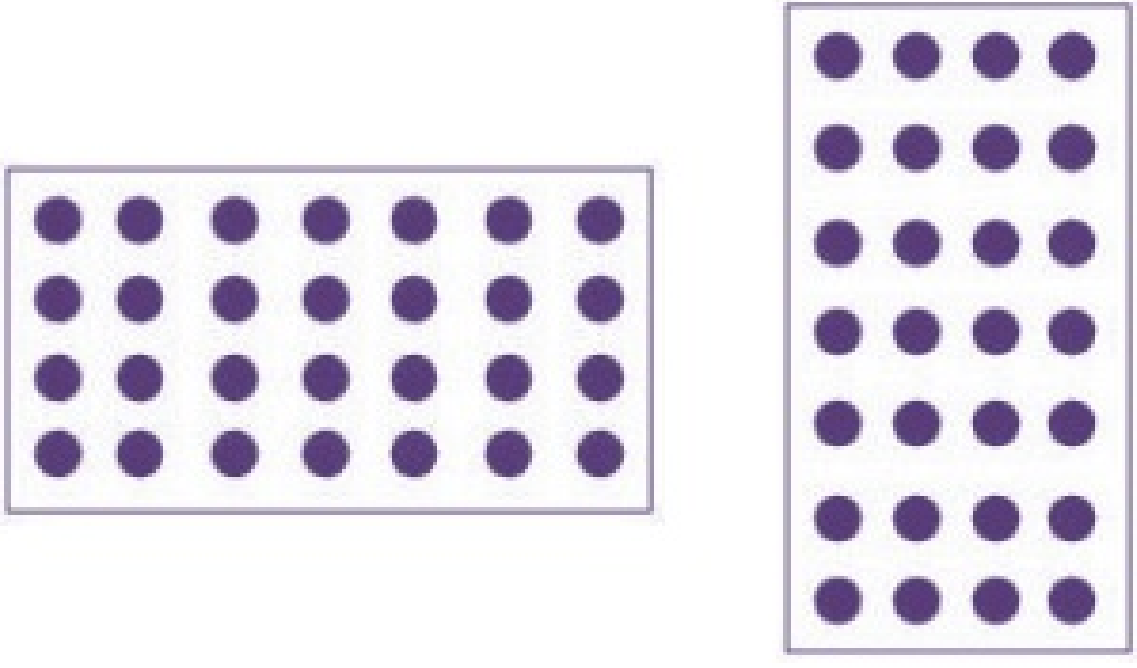
$$9 \times 28 = (9 \times 20) + (9 \times 8) = 252$$

Arithmetic Pattern

$\underline{1}_{+4}$ $\underline{5}_{+4}$ $\underline{9}_{+4}$ $\underline{13}$

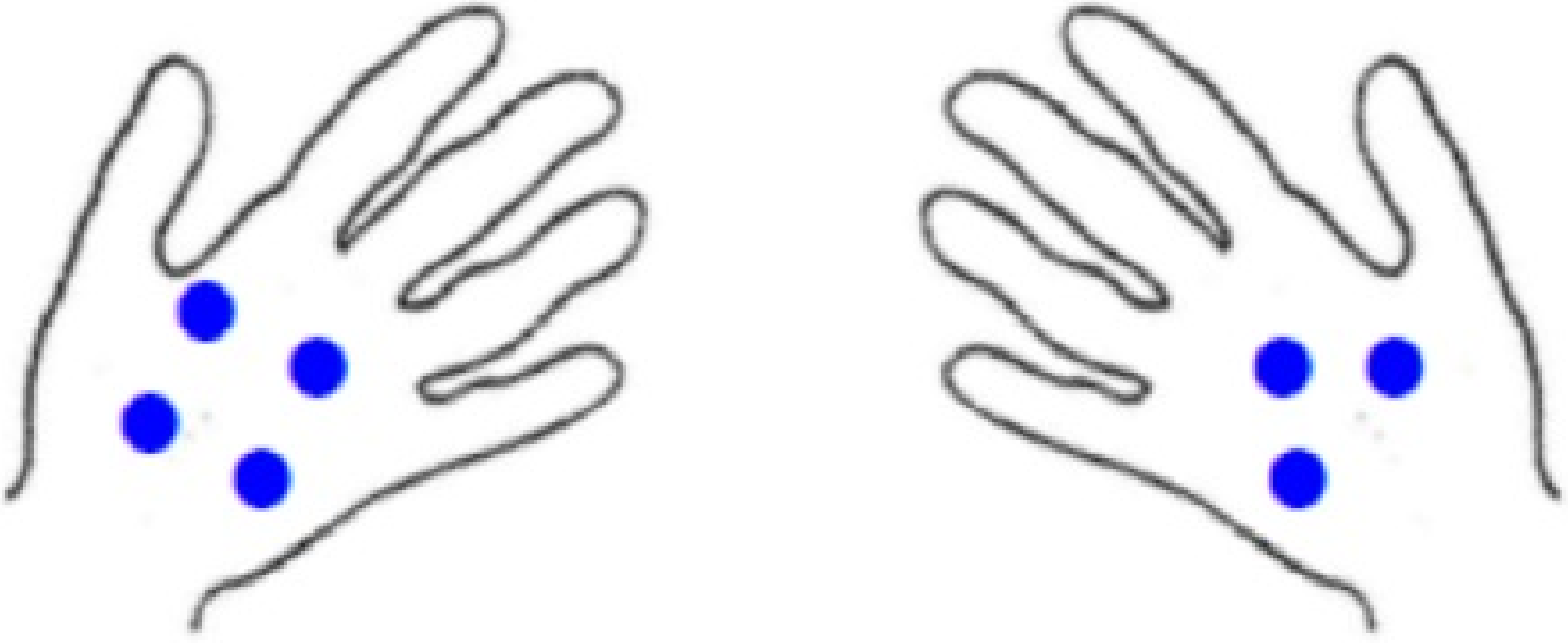
4b

Commutative Property



$$4 \times 7 = 7 \times 4$$

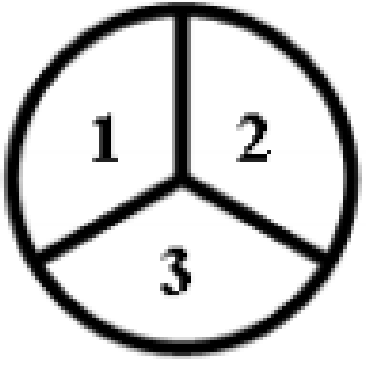
Compare



4 is more than 3.

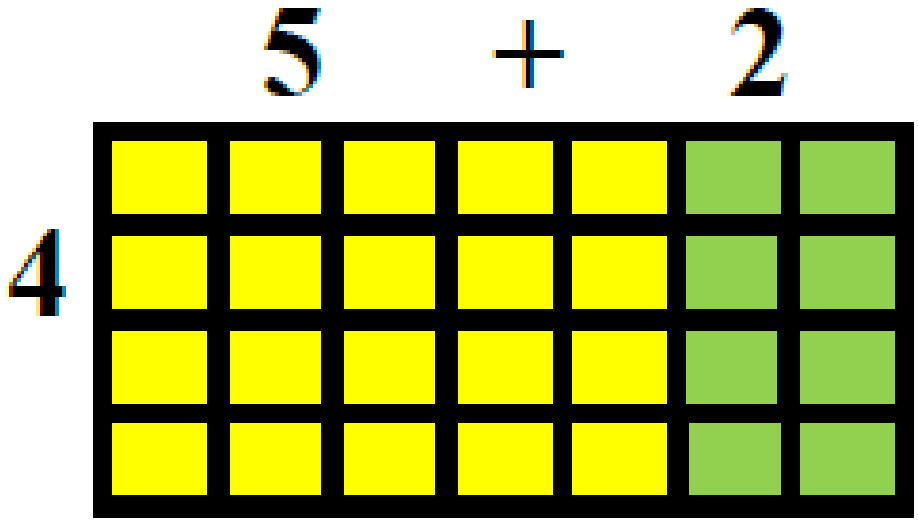
Denominator

$$\frac{1}{3}$$



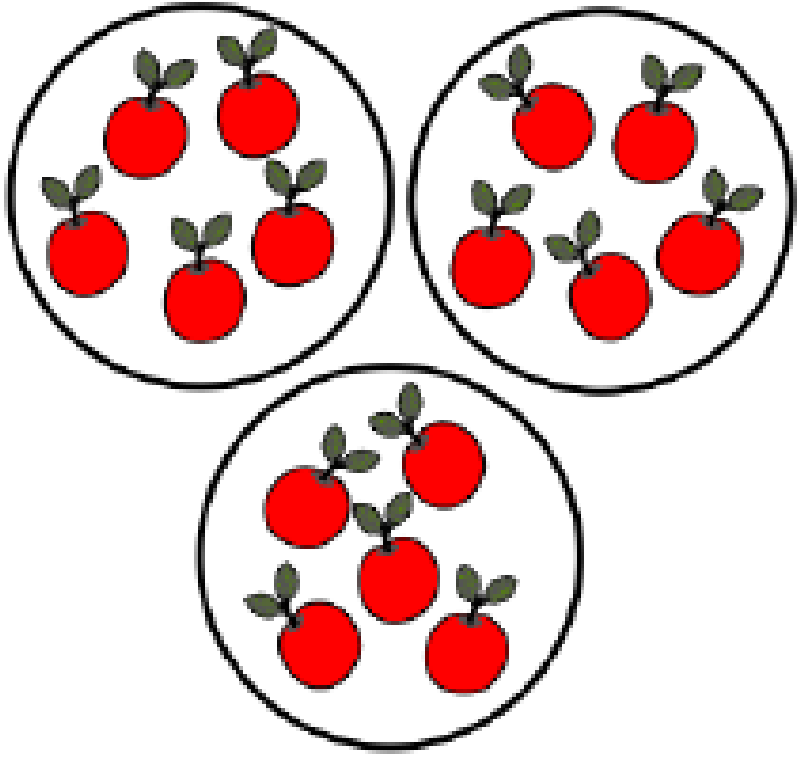
- Parts in all
- Whole
- Set
- Total

Distributive Property



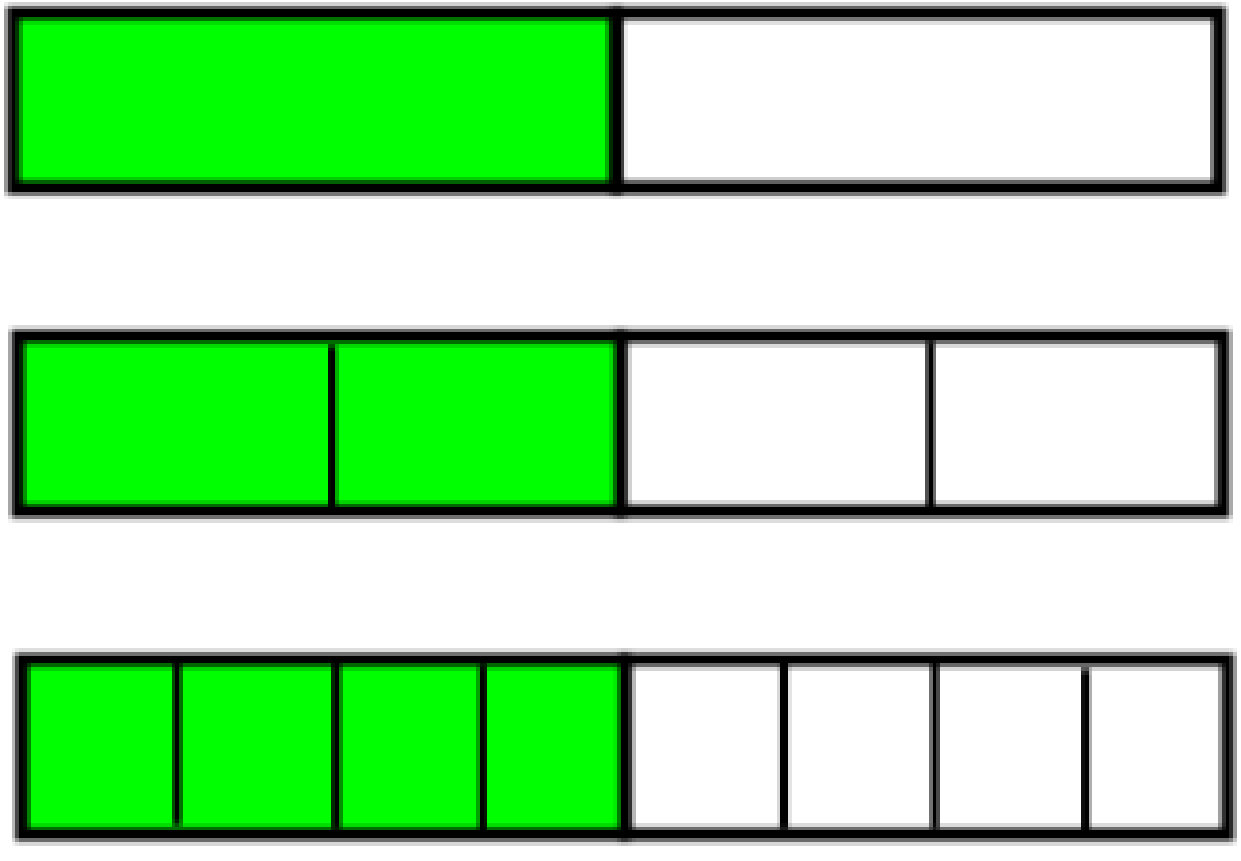
$$
\begin{aligned}
4 \times 7 &= 4 \times (5 + 2) \\
&= (4 \times 5) + (4 \times 2) \\
&= 20 + 8
\end{aligned}
$$

Divide



$$15 \div 3 = 5$$

Equivalent Fraction

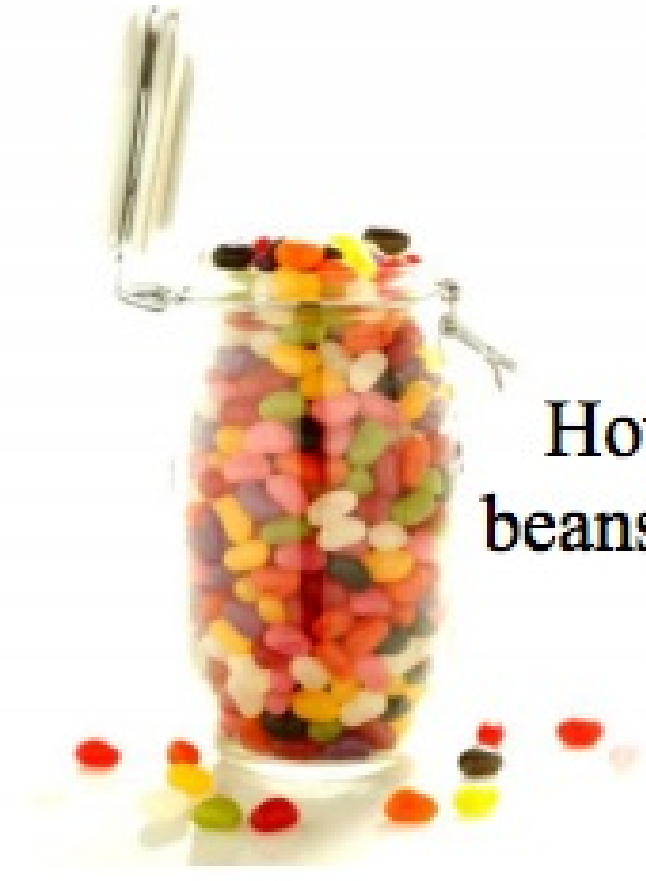


$\frac{1}{2}$

$\frac{2}{4}$

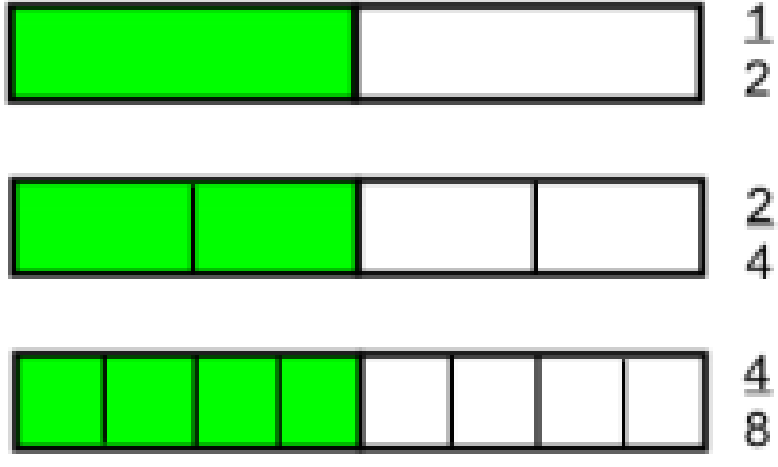
$\frac{4}{8}$

Estimation

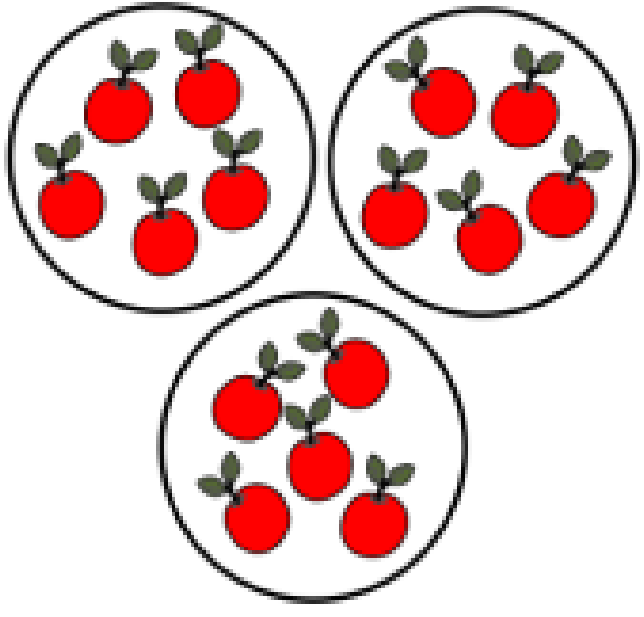


How many jelly beans are in the jar?

Fraction

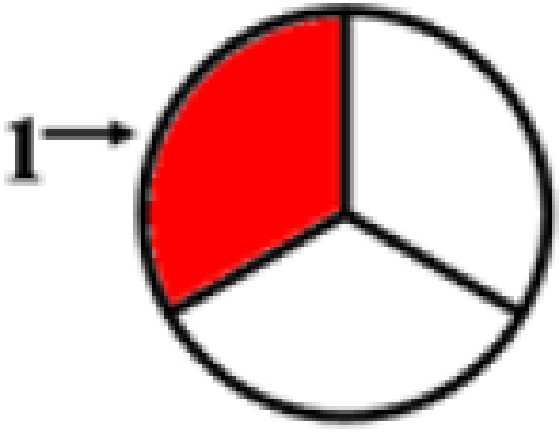

1/2
2/4
4/8

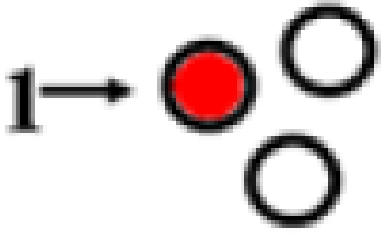
Multiply



$$3 \times 5 = 5 + 5 + 5$$

Numerator

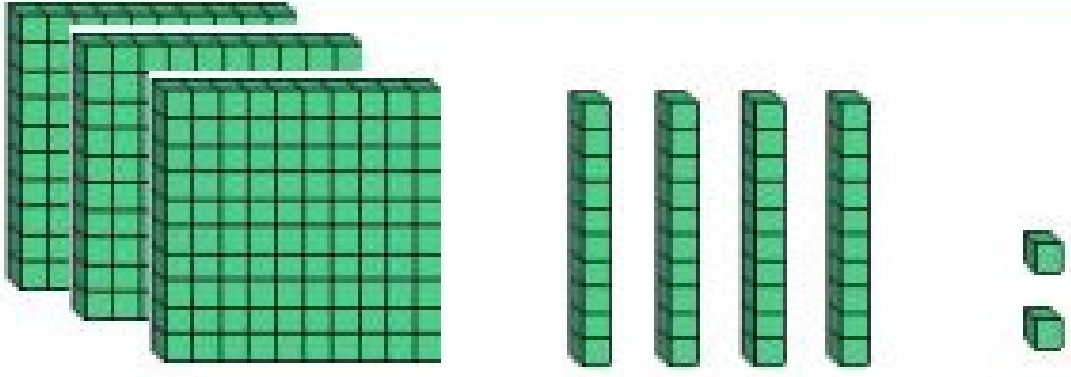




$$\frac{1}{3}$$

- Equal parts described in fraction
- Equal parts in the whole

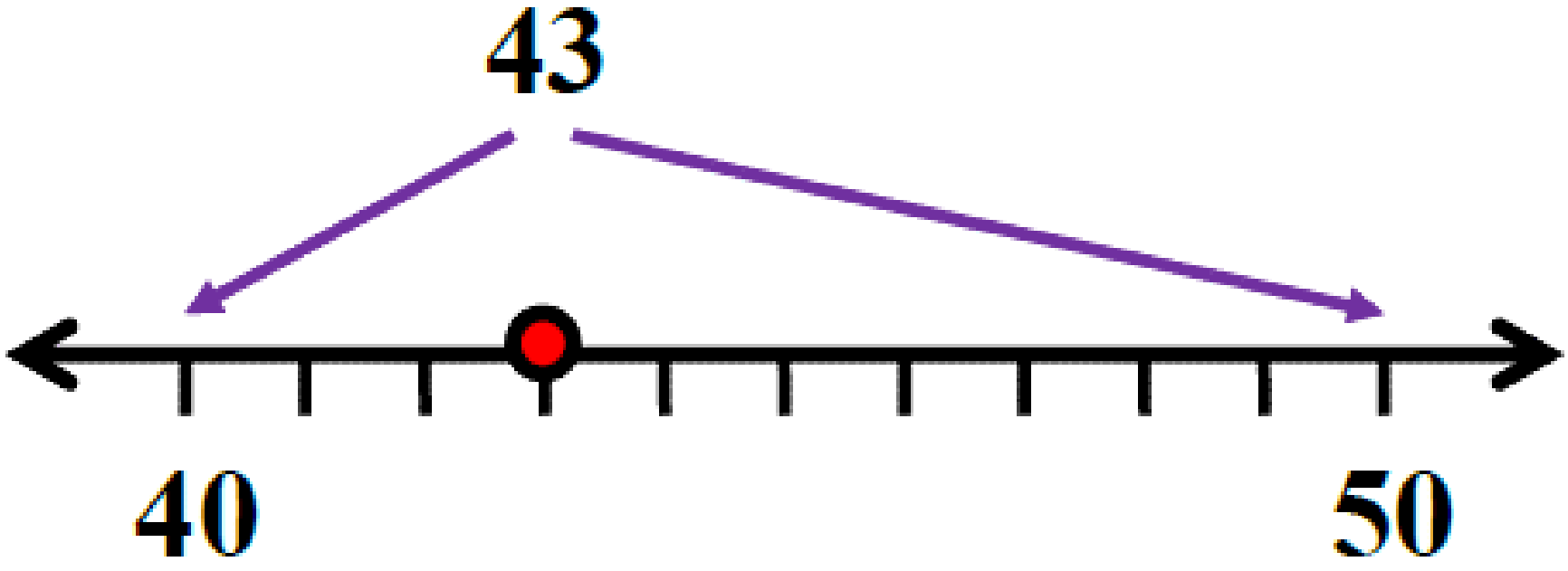
Place Value



Hundreds	Tens	Ones
3	4	2

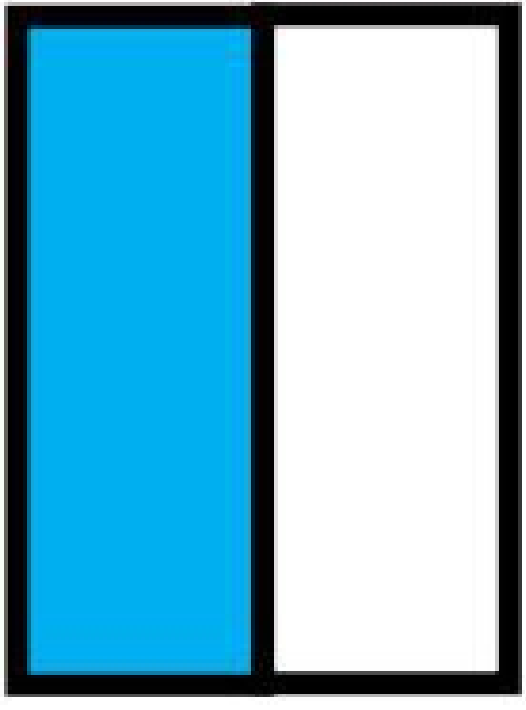
300 + 40 + 2

Rounding


43
40
50

Unit Fraction

$$\frac{1}{2}$$



Example