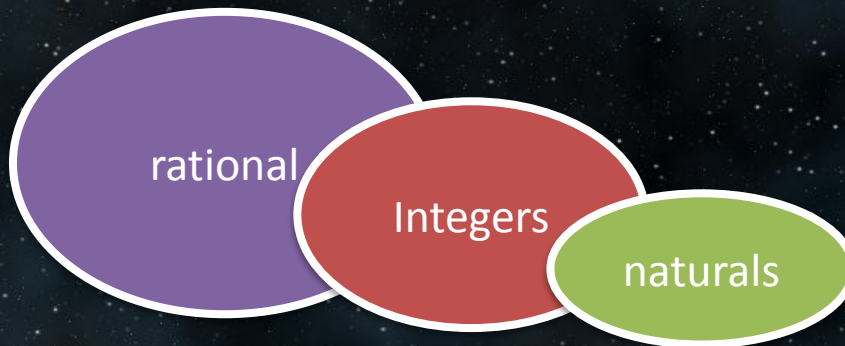


Algebra

- Repair 7th grade

Natural Integers rational Numbers

- Natural = 1,2,3,7...
- Integers = ...-2,-1,0,1,2...
- Fractoins ... $\frac{1}{3}$, $-\frac{2}{3}$, $\frac{2}{3}$, $-\frac{1}{5}$, $\frac{3}{8}$...



rational retail

$$\frac{1}{6} * \frac{2}{4} = \frac{2}{24} = \frac{1}{12}$$

short multiplication formula

- $$(x + y)^2 = (x^2 + 2xy + y^2)$$
$$(x - y)^2 = (x^2 - 2xy + y^2)$$
$$(x^2 + y^2) = (x + y)(x - y)$$
$$x^2 + y^2 = (x + y)(x - y)$$
$$(x^3 + y^3) = (x + y)(x^2 - 2xy + y^2)$$
$$(x^3 - y^3) = (x + y)(x^2 + 2xy - y^2)$$

$$(25 + 10b + b^2) = (5 + b)^2$$