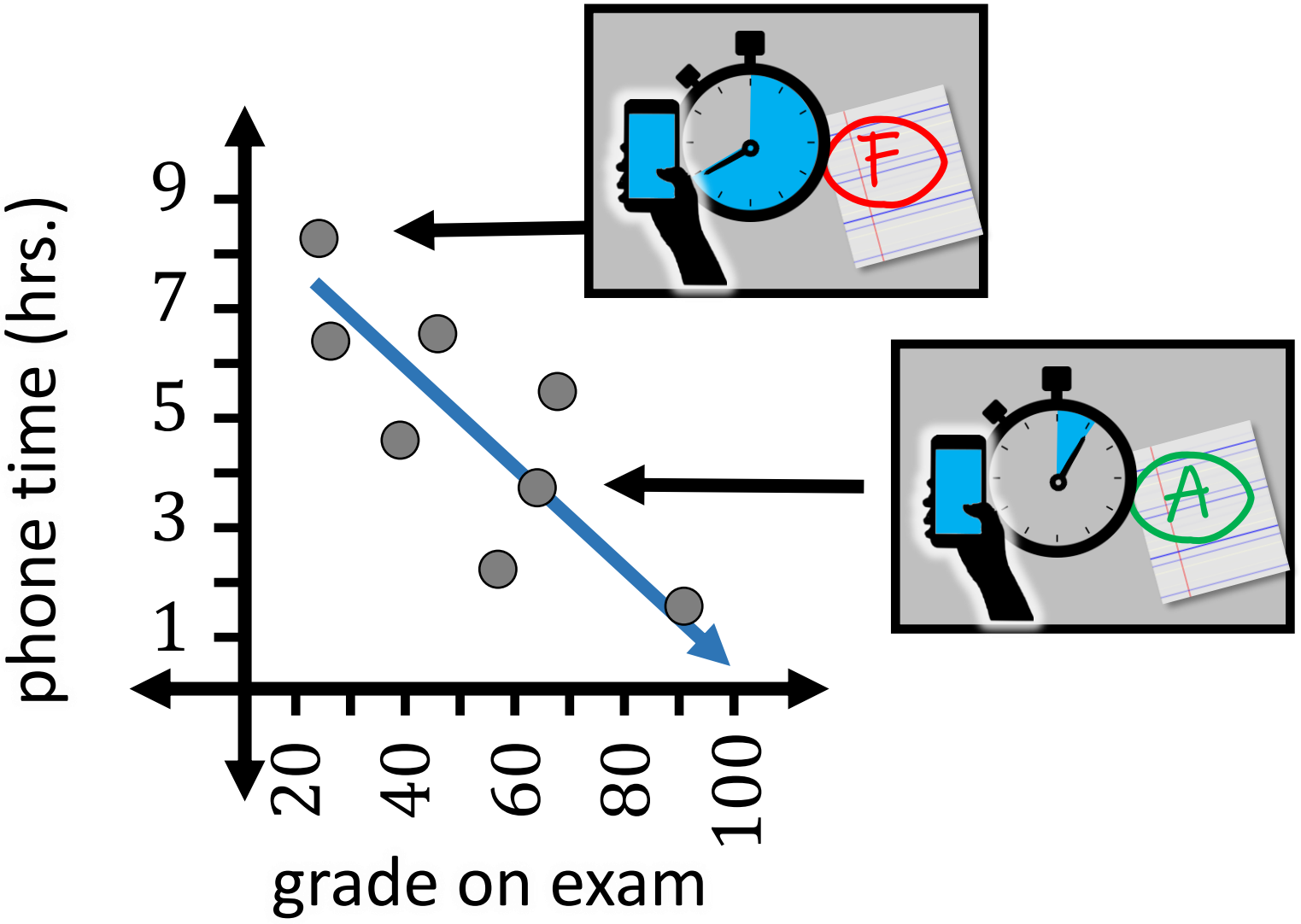
association/correlation/trend



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coefficient

$$2x - 5 = 13$$

coefficient

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compound interest

year	starting balance	compound interest earned (5% = 0.05)	new balance
0 yr	$1,000	—	$1,000.00
1 yr	$1,000	$50.00 →	$1,050.00
2 yr	$1,050	$52.50 →	$1,102.50
3 yr	$1,102.50	$55.13 →	$1,157.63

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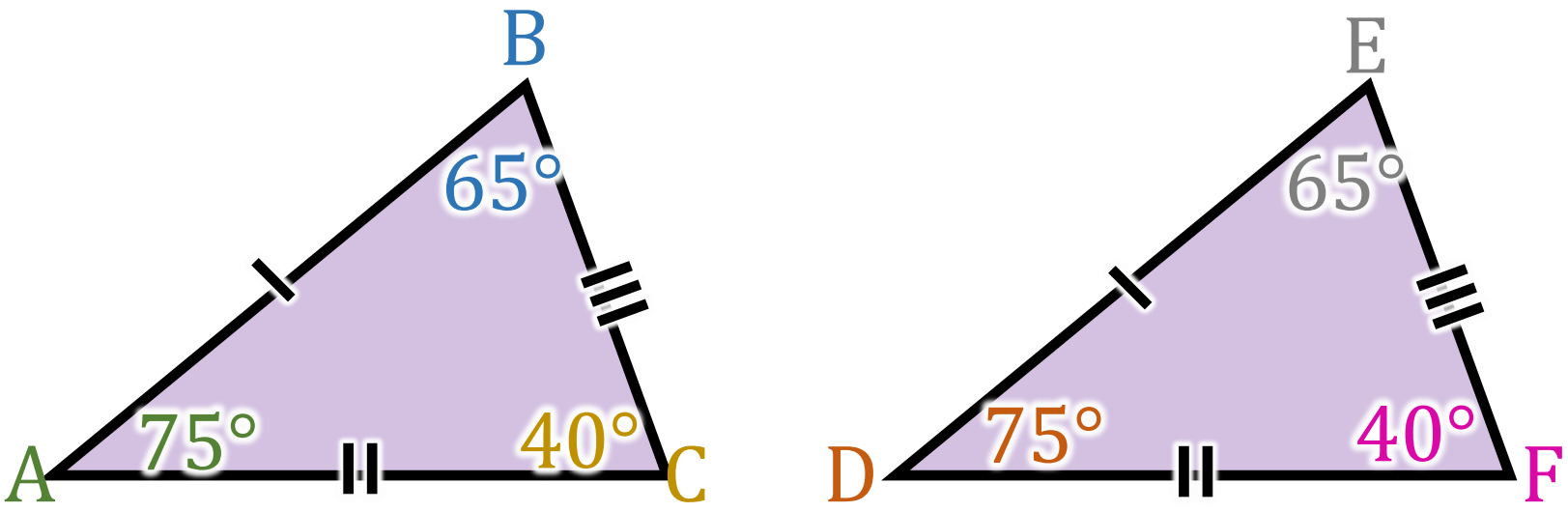
congruent

congruent triangles



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constant

$$2x - 5 = 13$$

constant

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constant rate of change

Water filling a Tank Over Time		
time (min)	water (gal)	constant rate of change
5	2	0.4
10	4	0.4
15	6	0.4
20	8	0.4
25	10	0.4

constant = same

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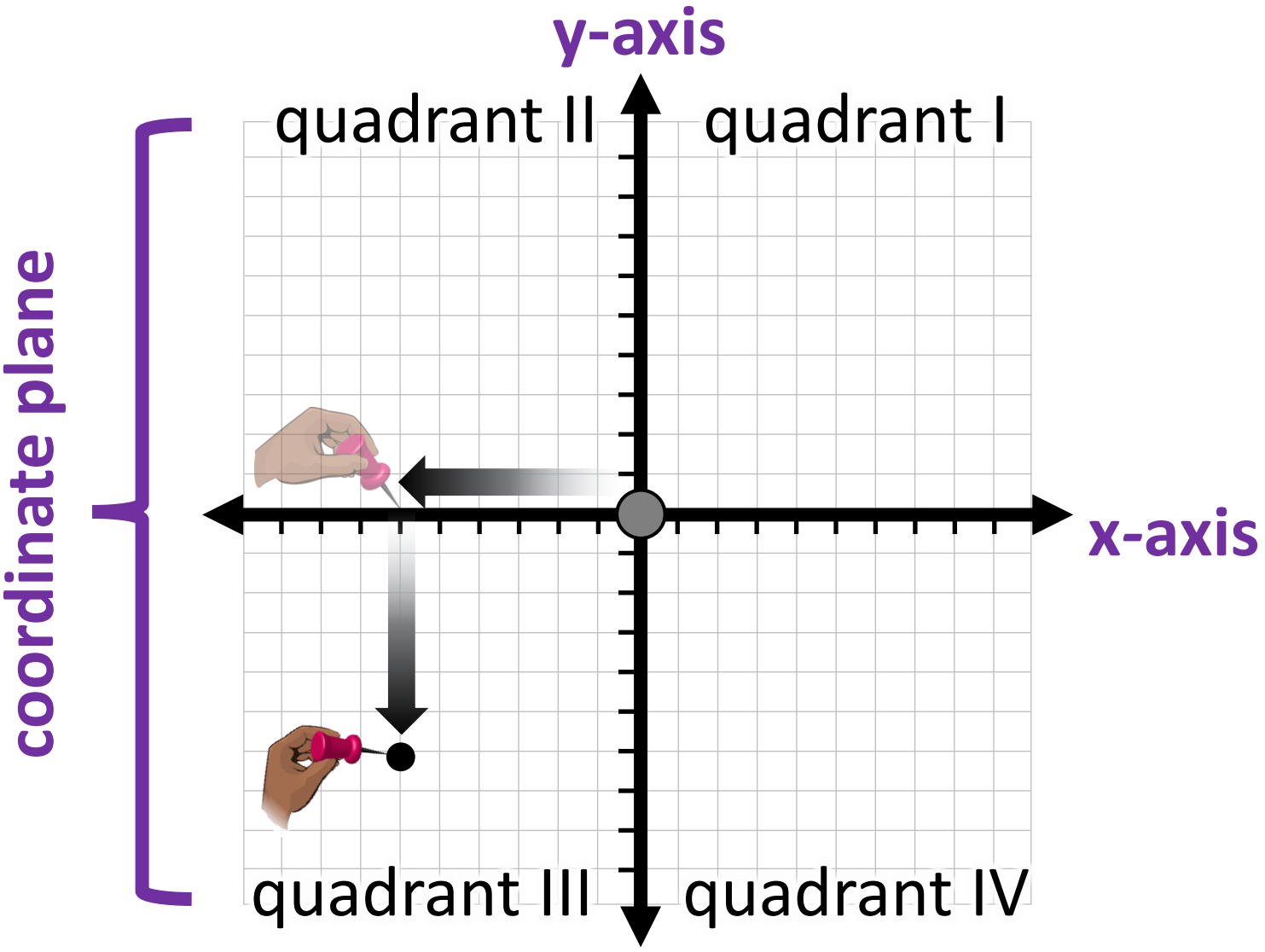
coordinate plane



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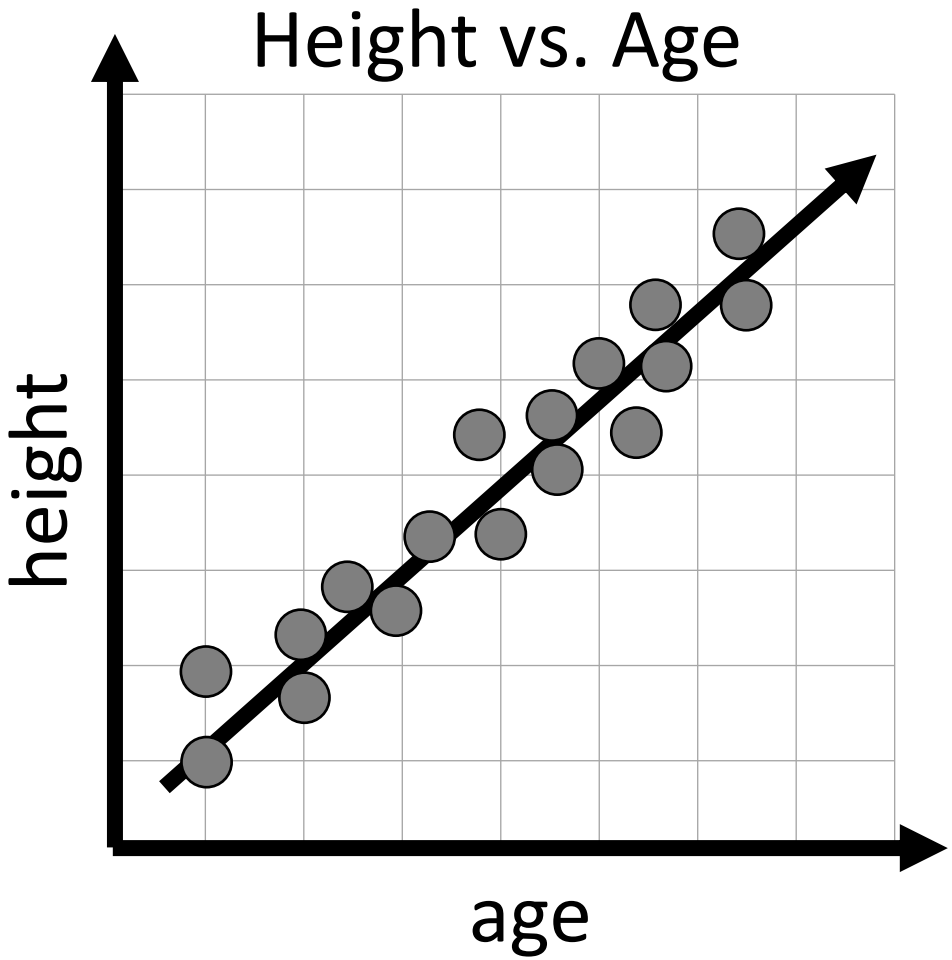
correlation strength



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circumference

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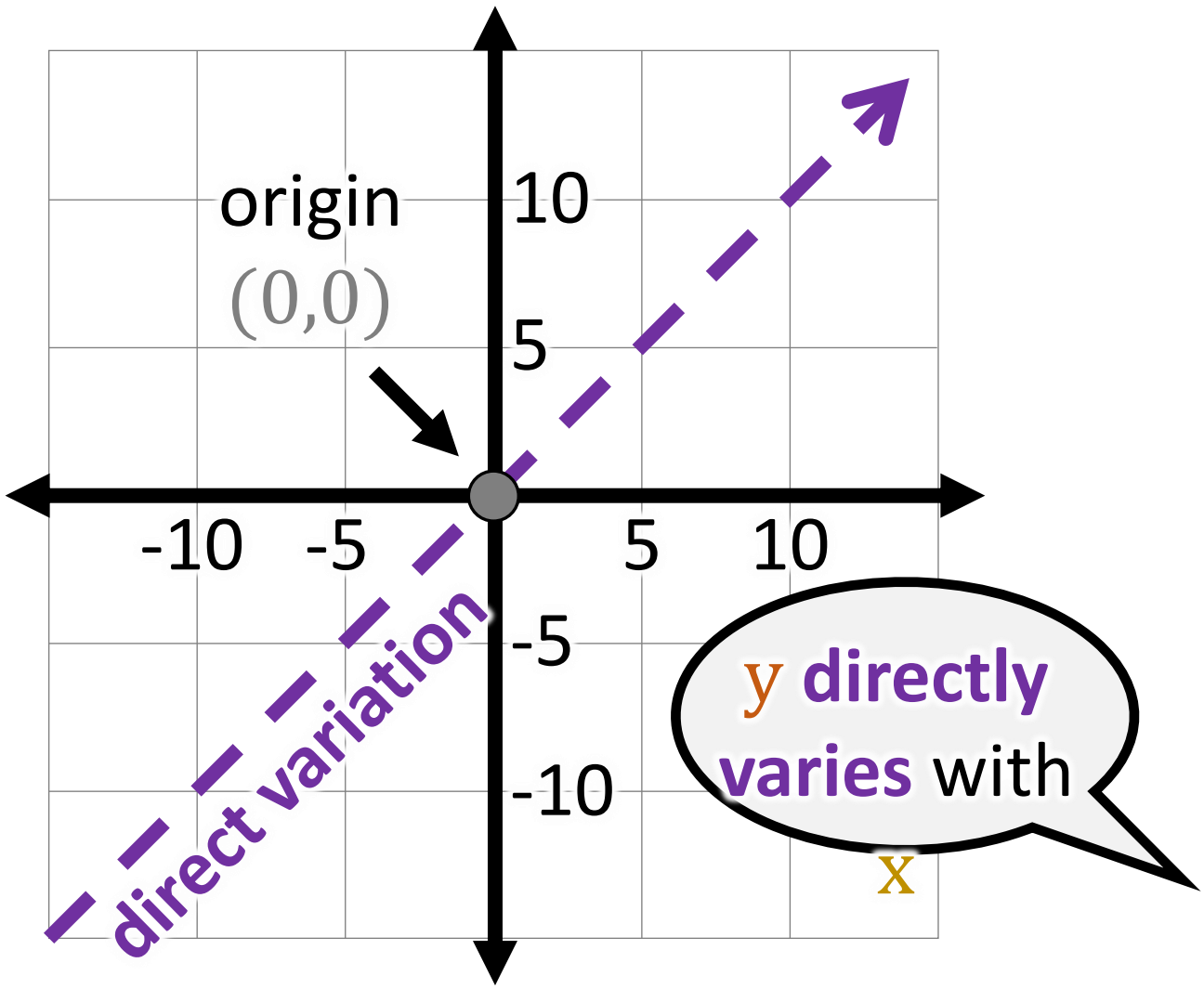
direct variation



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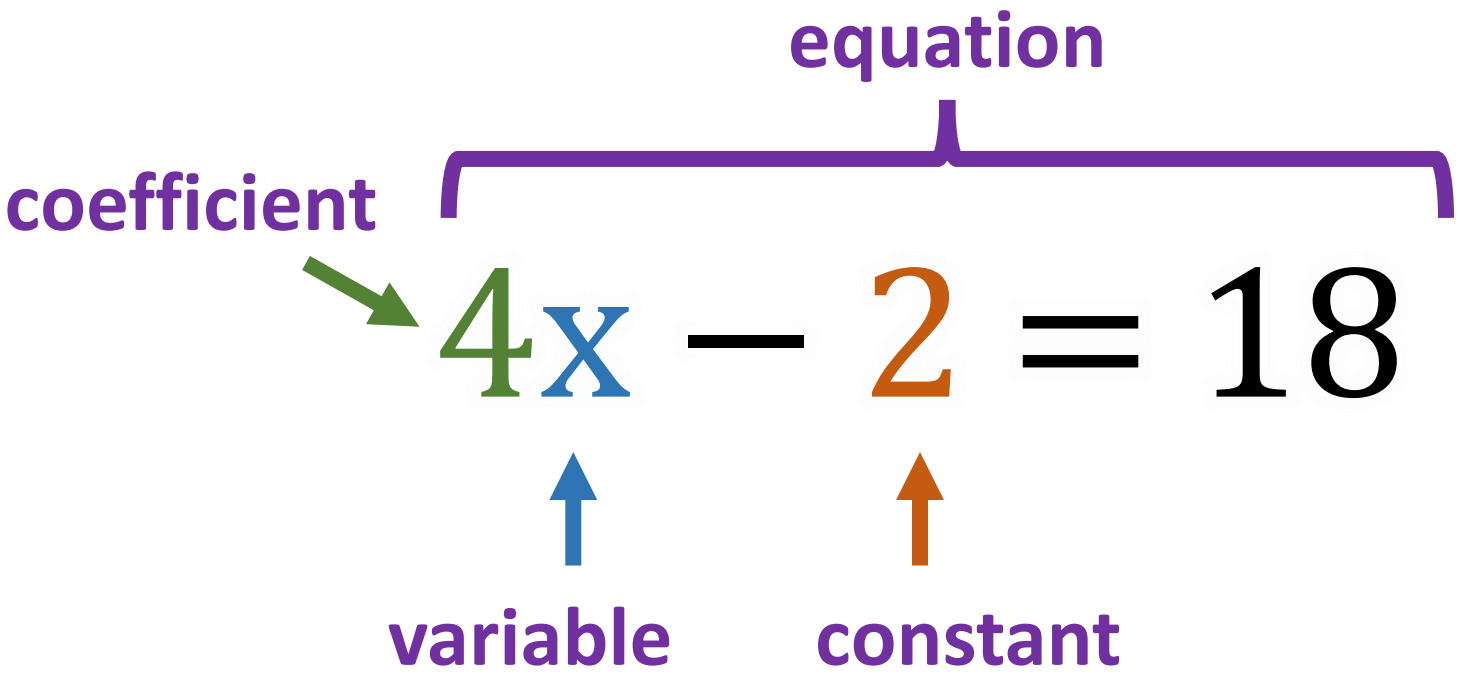
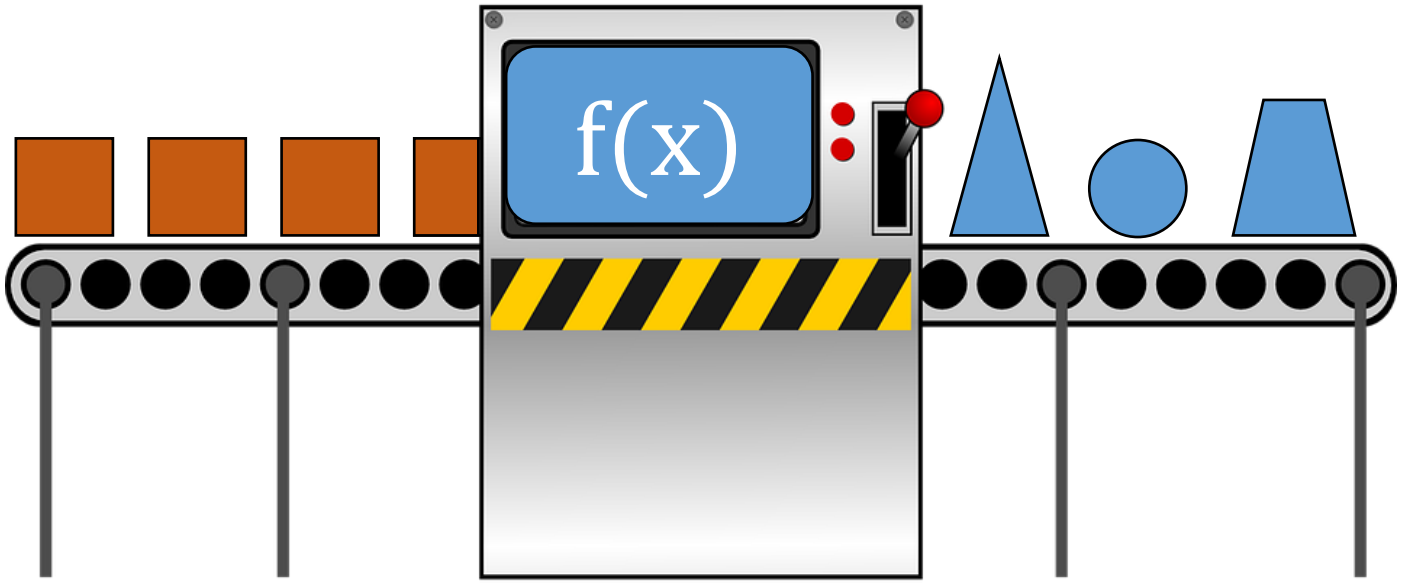
equation

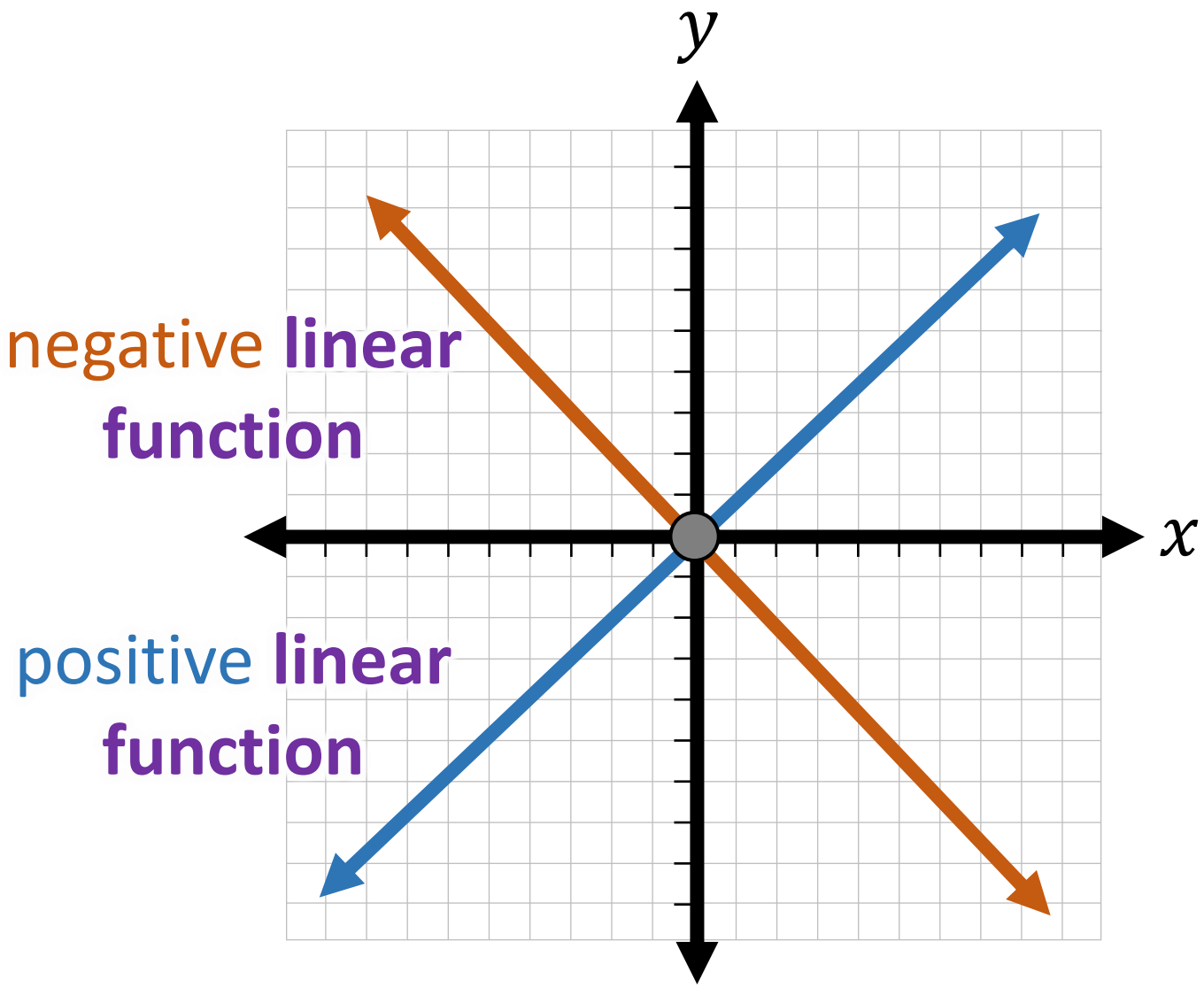


function

input → **function** → output



linear function/relationship



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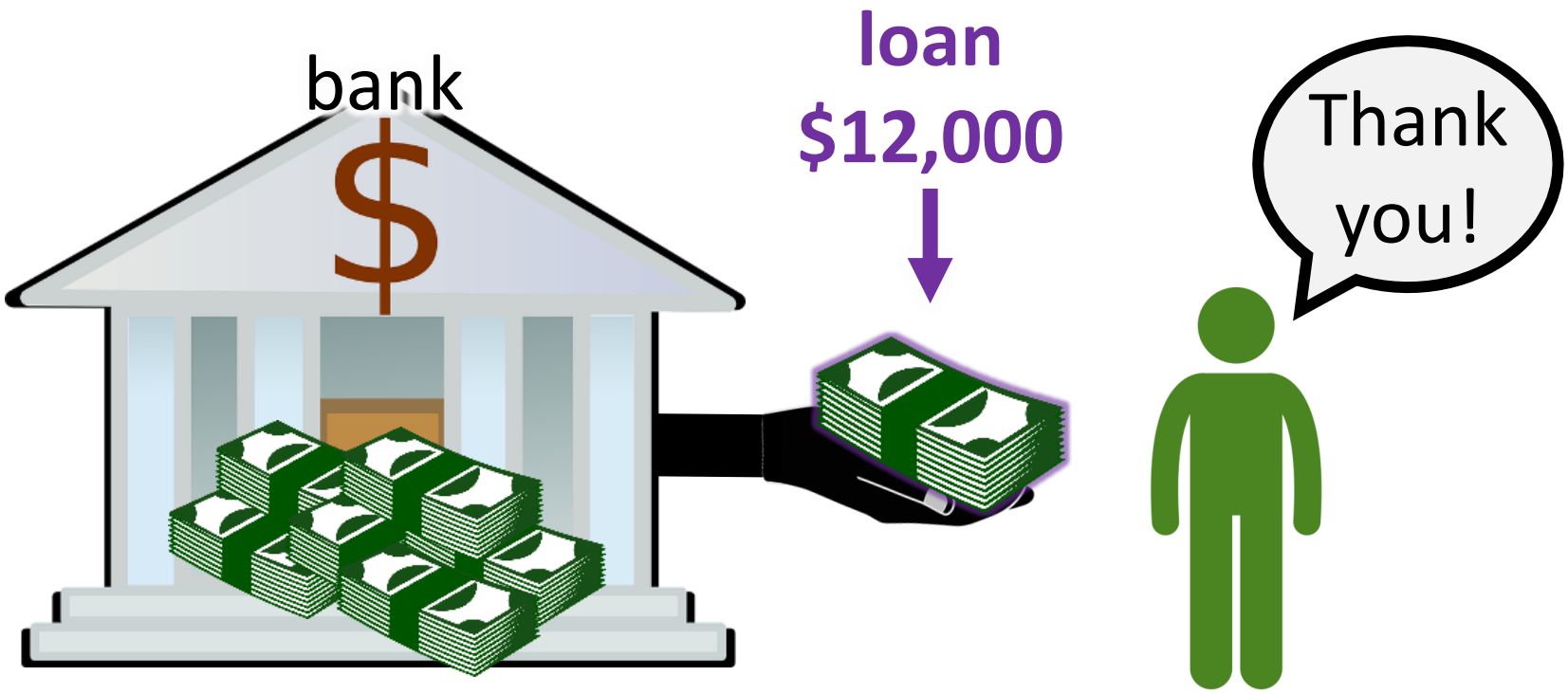
loan



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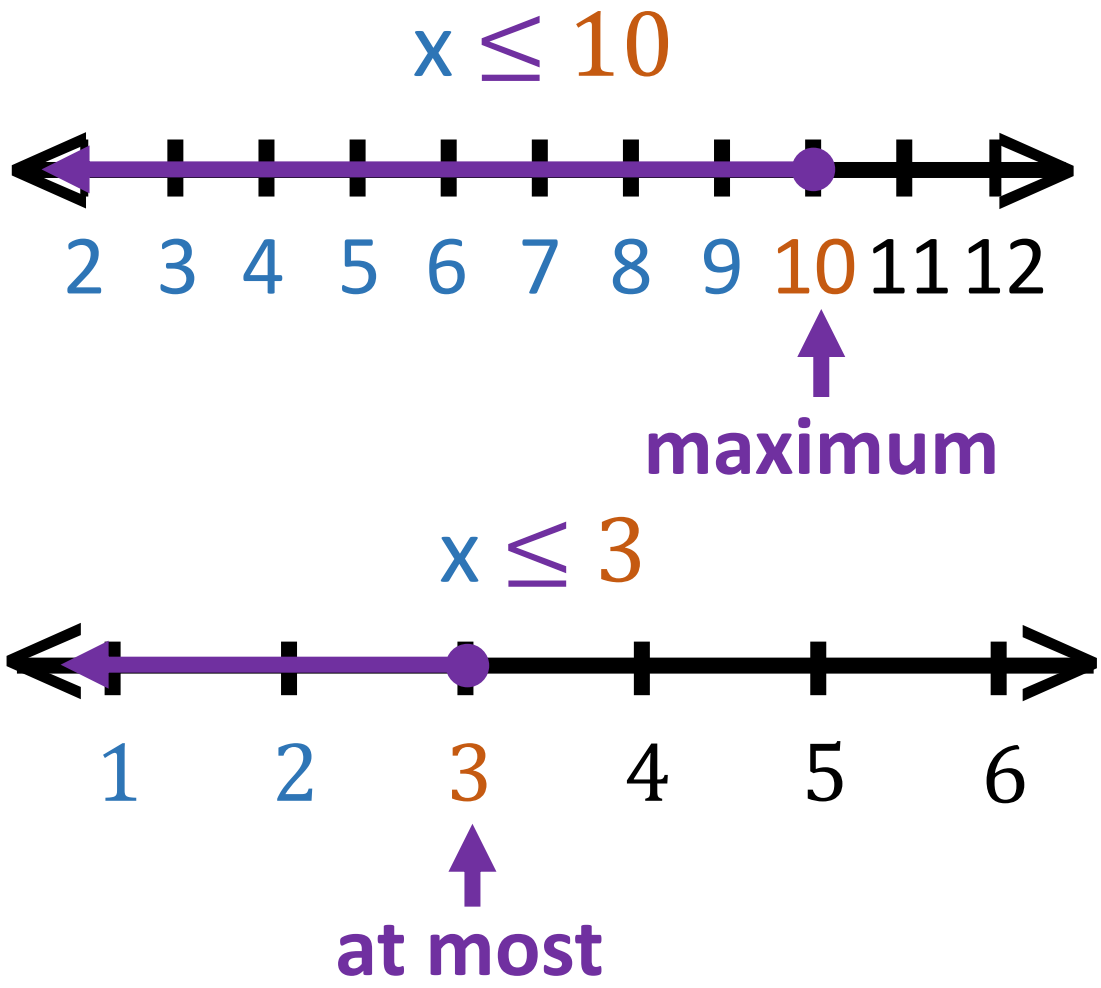
maximum/at most



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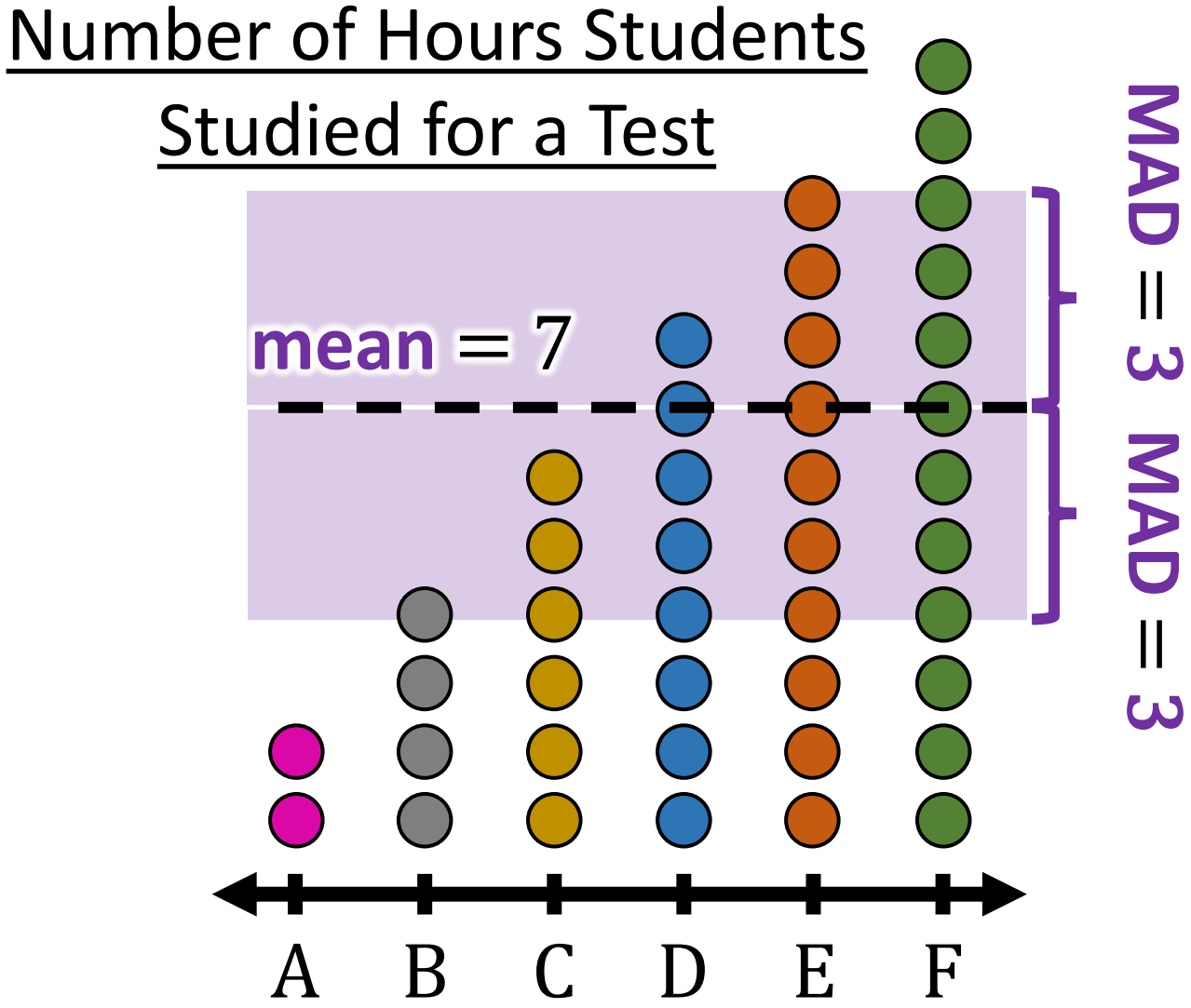
mean absolute deviation



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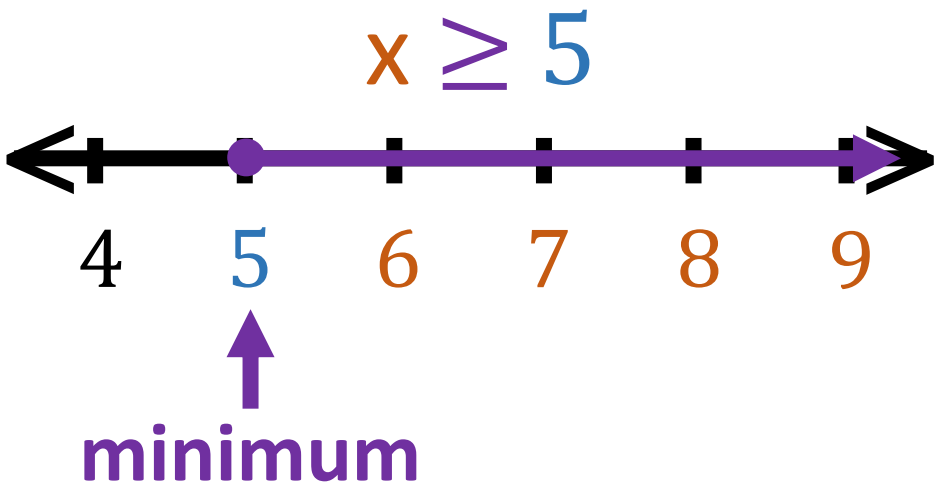
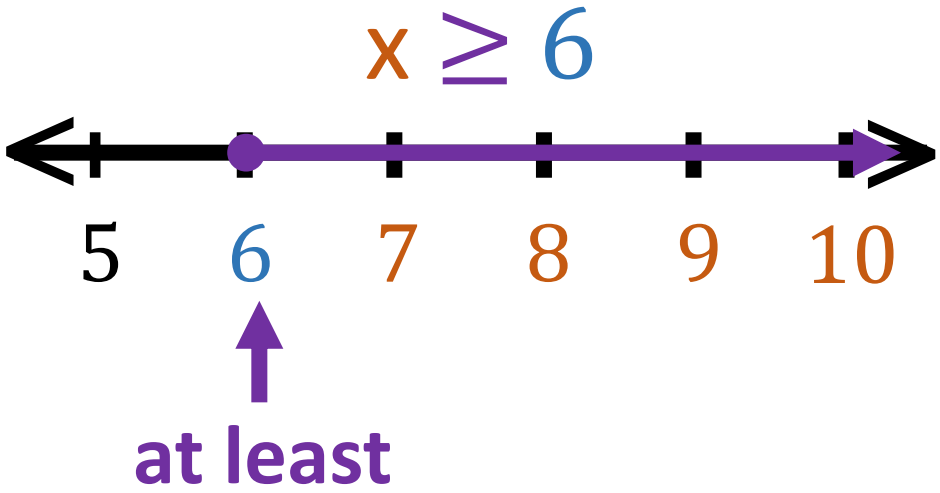
minimum/at least





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no association

shoe size (x)	grade (y)	$y \div x = k$
4	65	$65 \div 4 = 16.25$
4.5	85	$85 \div 4.5 = 18.88$
5	20	$20 \div 5 = 4$
5	50	$50 \div 5 = 10$

no association

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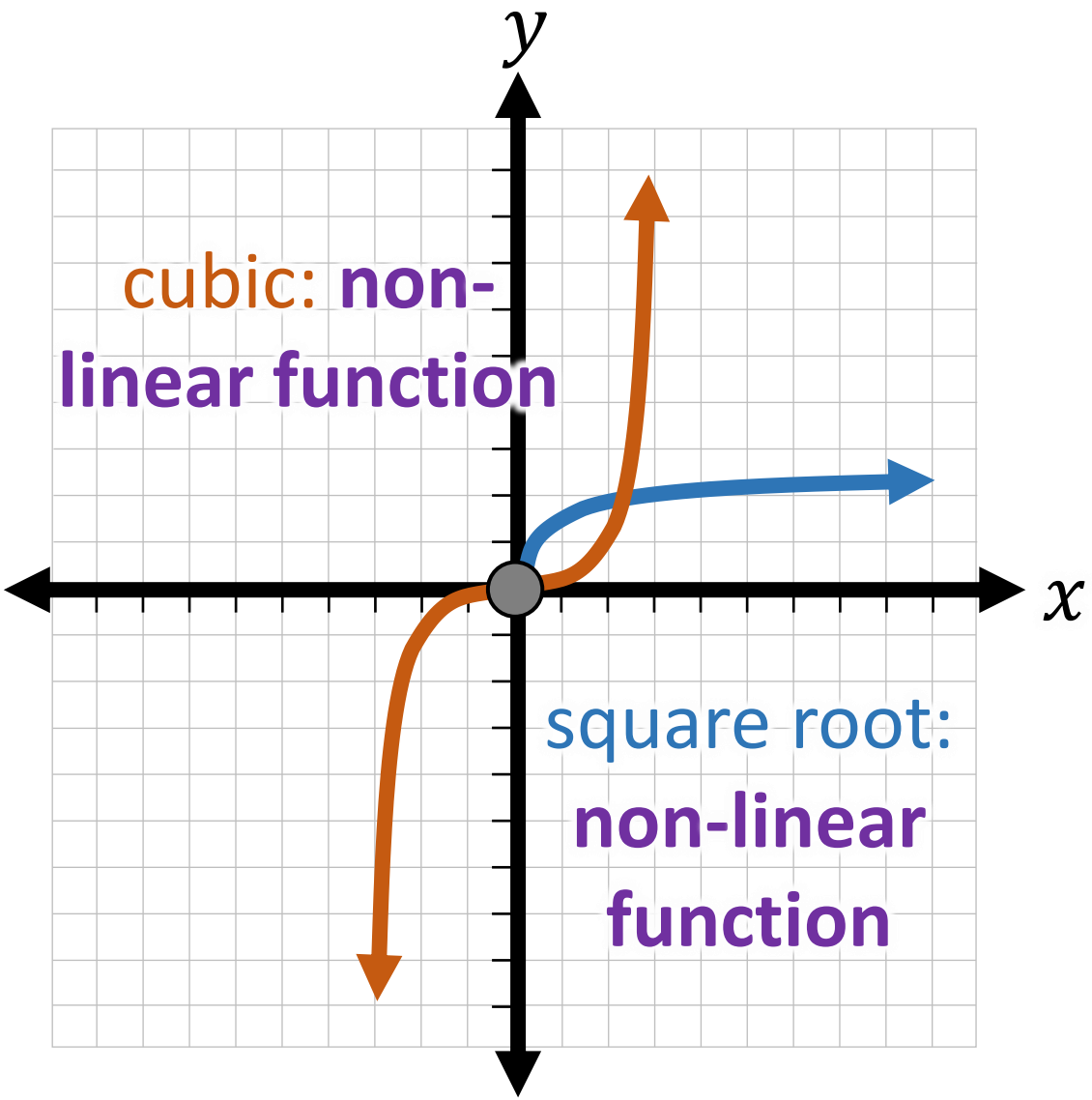
non-linear function/relationship



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non-proportional situation/relationship

Pizzas (x)	Total Cost (y)	ratio (y ÷ x)
1	$13	13.00
2	$23	11.50
3	$33	11.00
4	$43	10.75
5	$53	10.60

non-proportional

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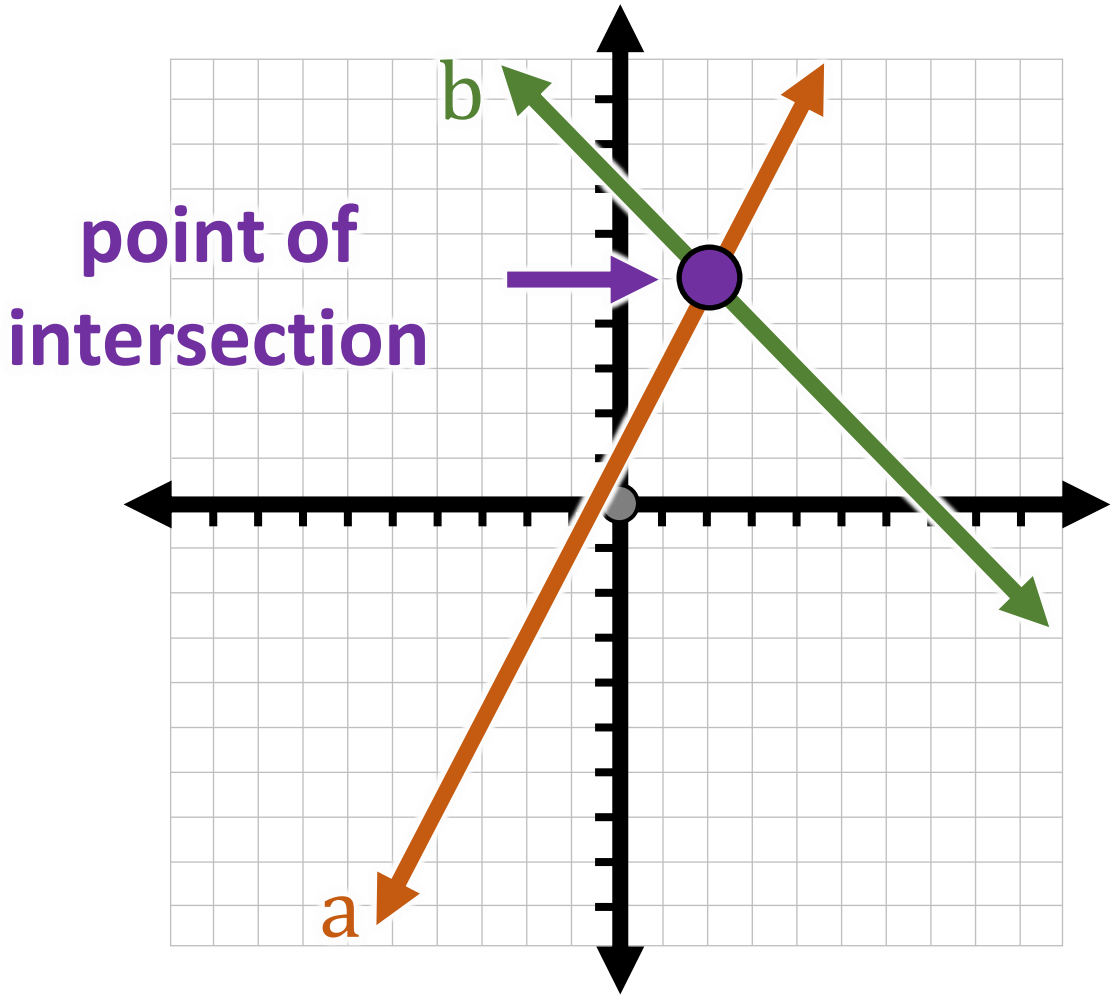
point of intersection



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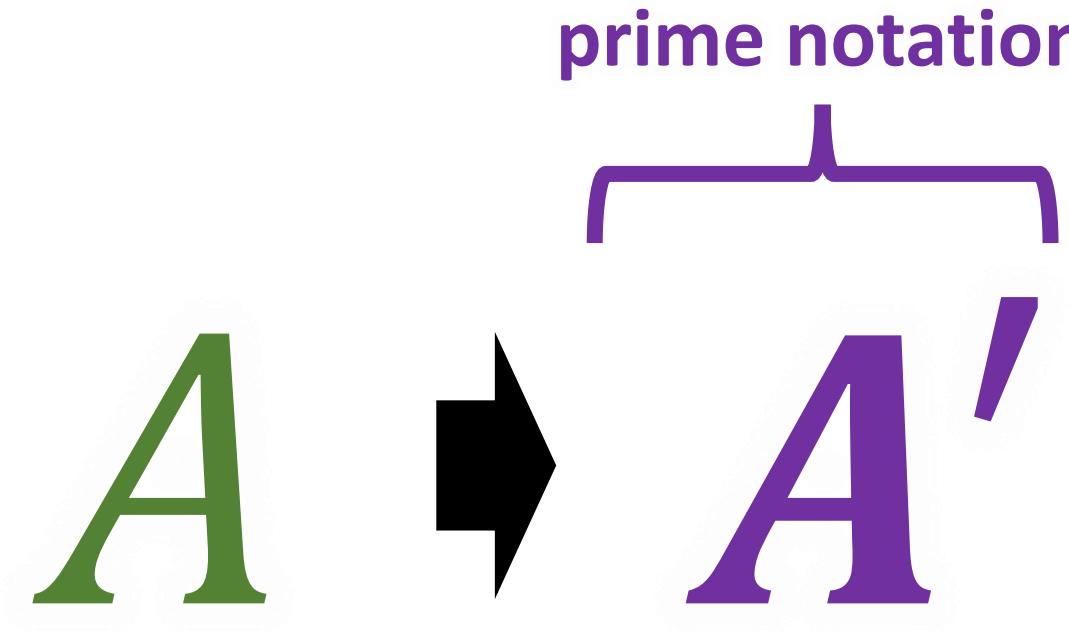
prime notation



original vertex

transformed vertex

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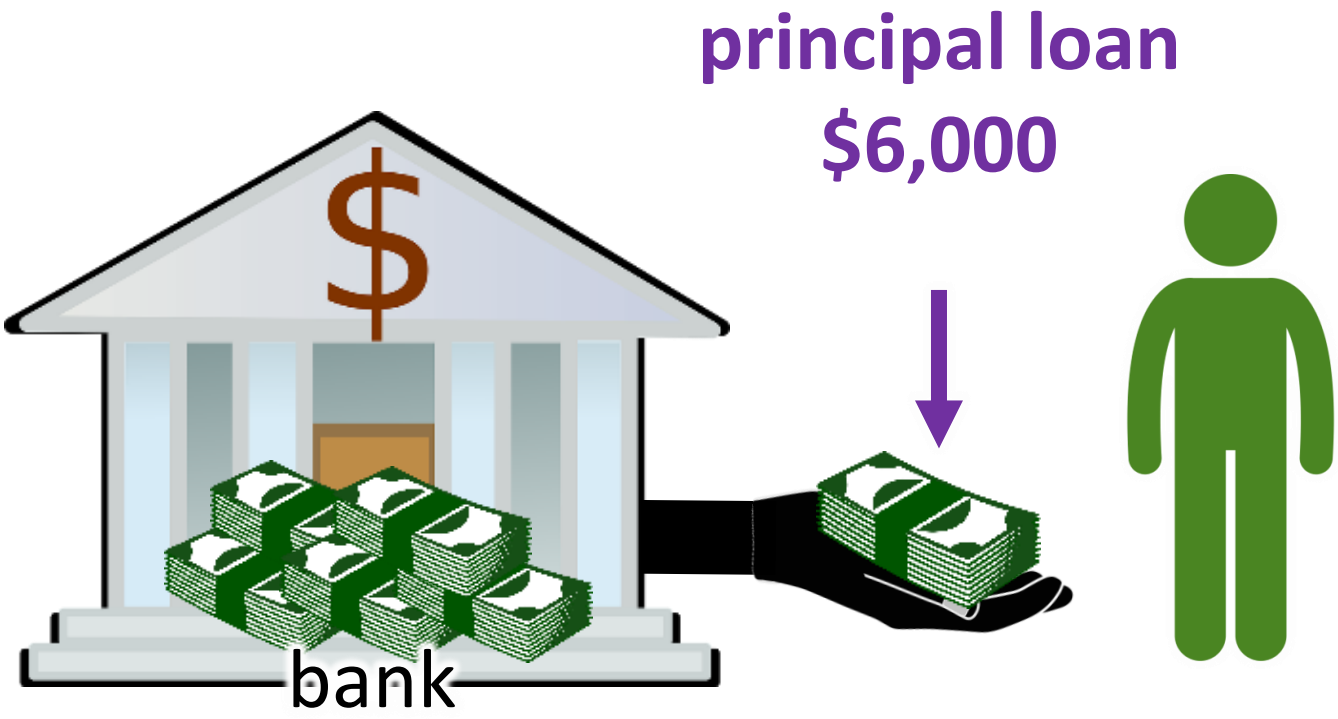
principal



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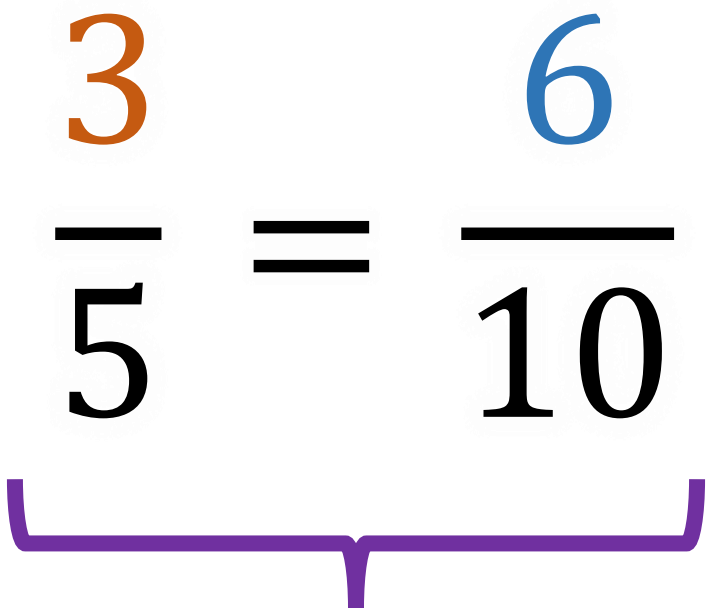
proportion



proportion: equivalent fractions

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proportional situation/relationship

Cupcakes per Pan		
trays (x)	cupcakes (y)	**ratio** (y ÷ x)
1	12	12
2	24	12
3	36	12
4	48	12
5	60	12

proportional

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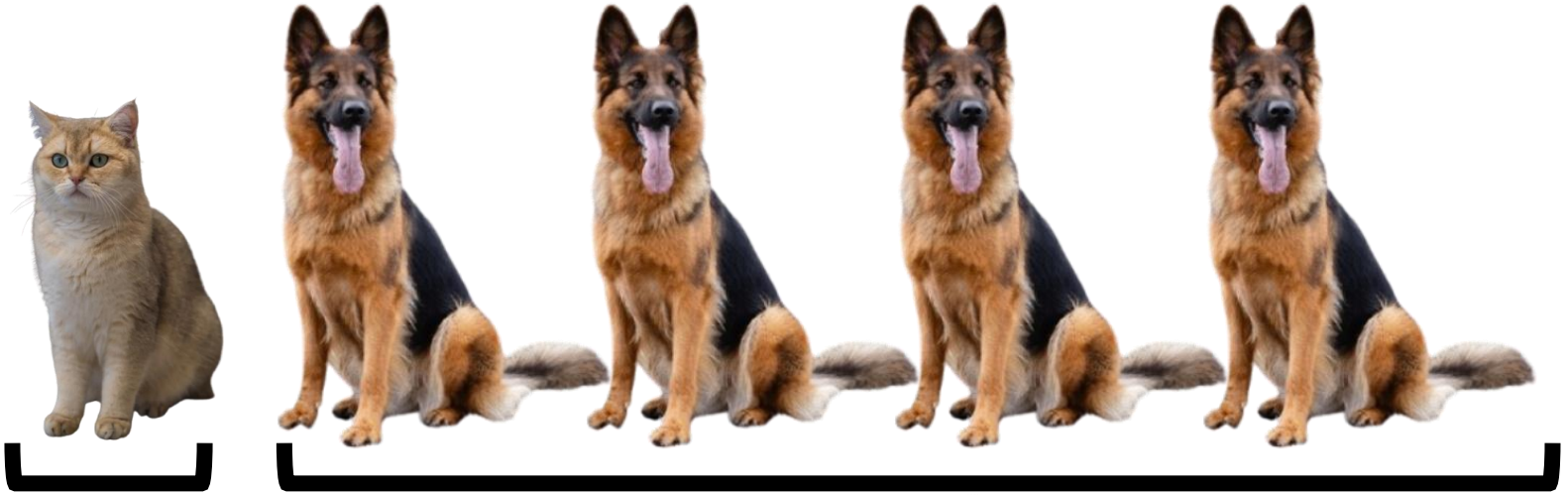
ratio

part-to-part **ratio** of cats to dogs



part #1: cats

part #2: dogs

ratios { **1:4** **1 to 4** **1 cat to 4 dogs**

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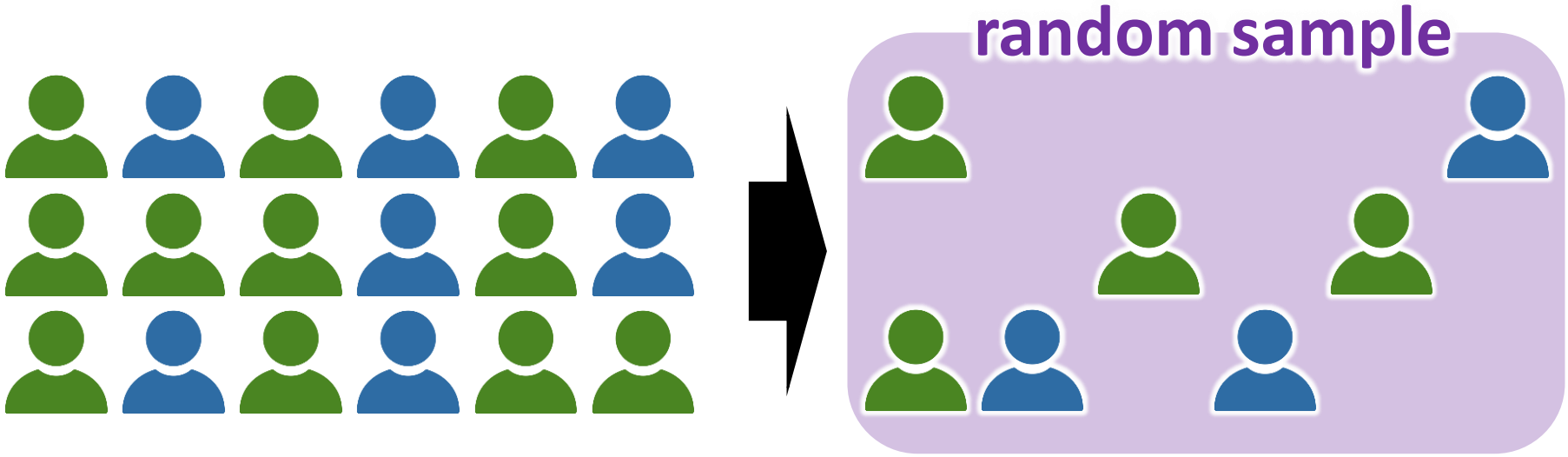
random sampling



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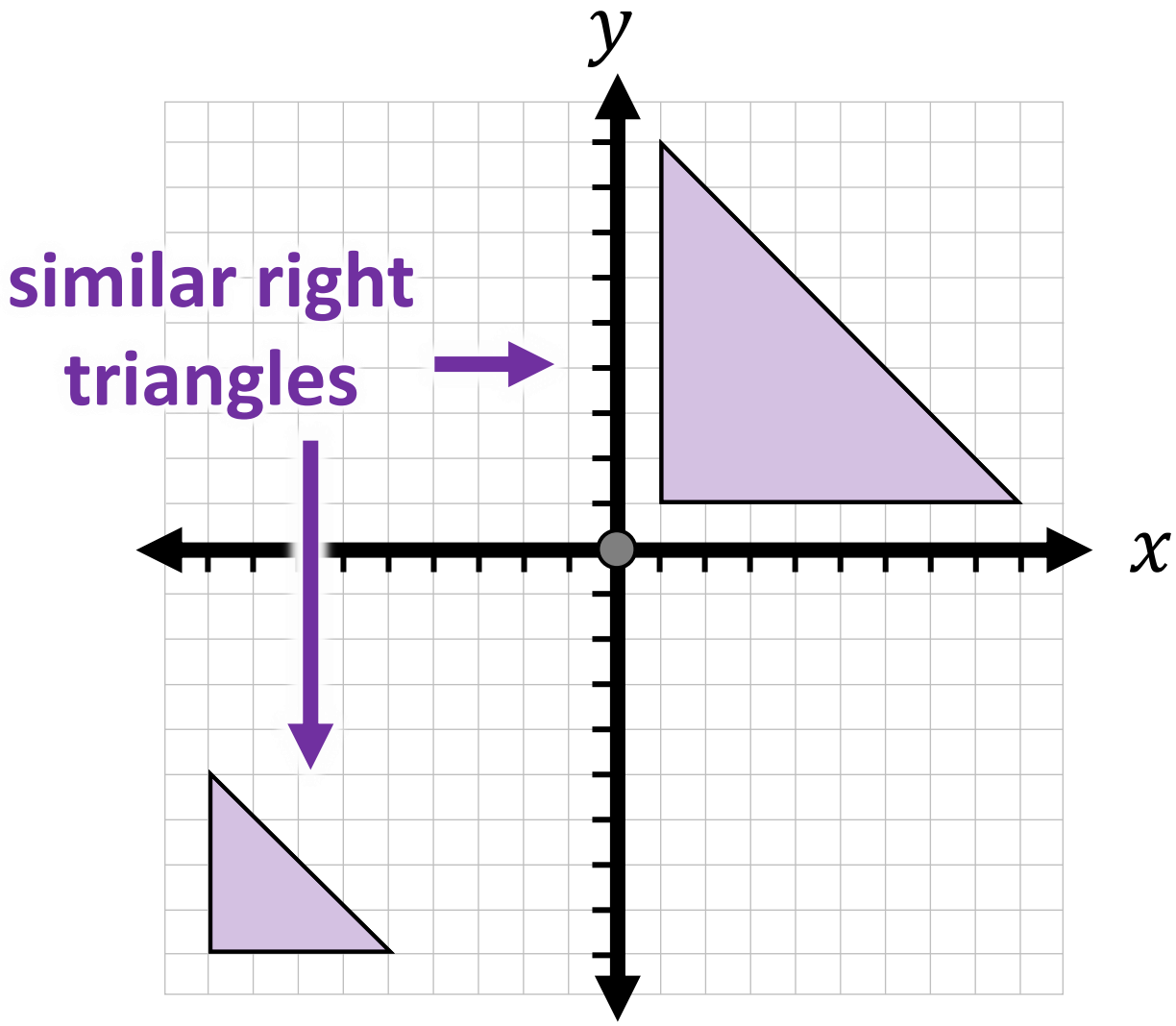
similar right triangle



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simple interest

calculating **simple interest**
interest (I) = **principal** (P) × **rate** (r) × **time** (t) $I = \$6{,}000 \times 0.05 \times 3$ $I = \$900$ ← **simple interest**
total **loan** = $\$6{,}000$ + **$900** = $\$6{,}900$

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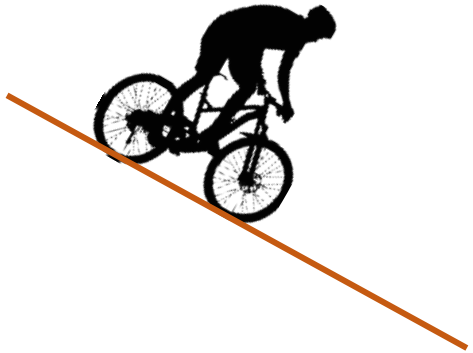
slope

$m > 0$ $m < 0$ $m = 0$



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time

time (year)	**loan**	**interest**	total owed
1	$6,000	$300	$6,300
2		$600	$6,600
3		$900	$6,900

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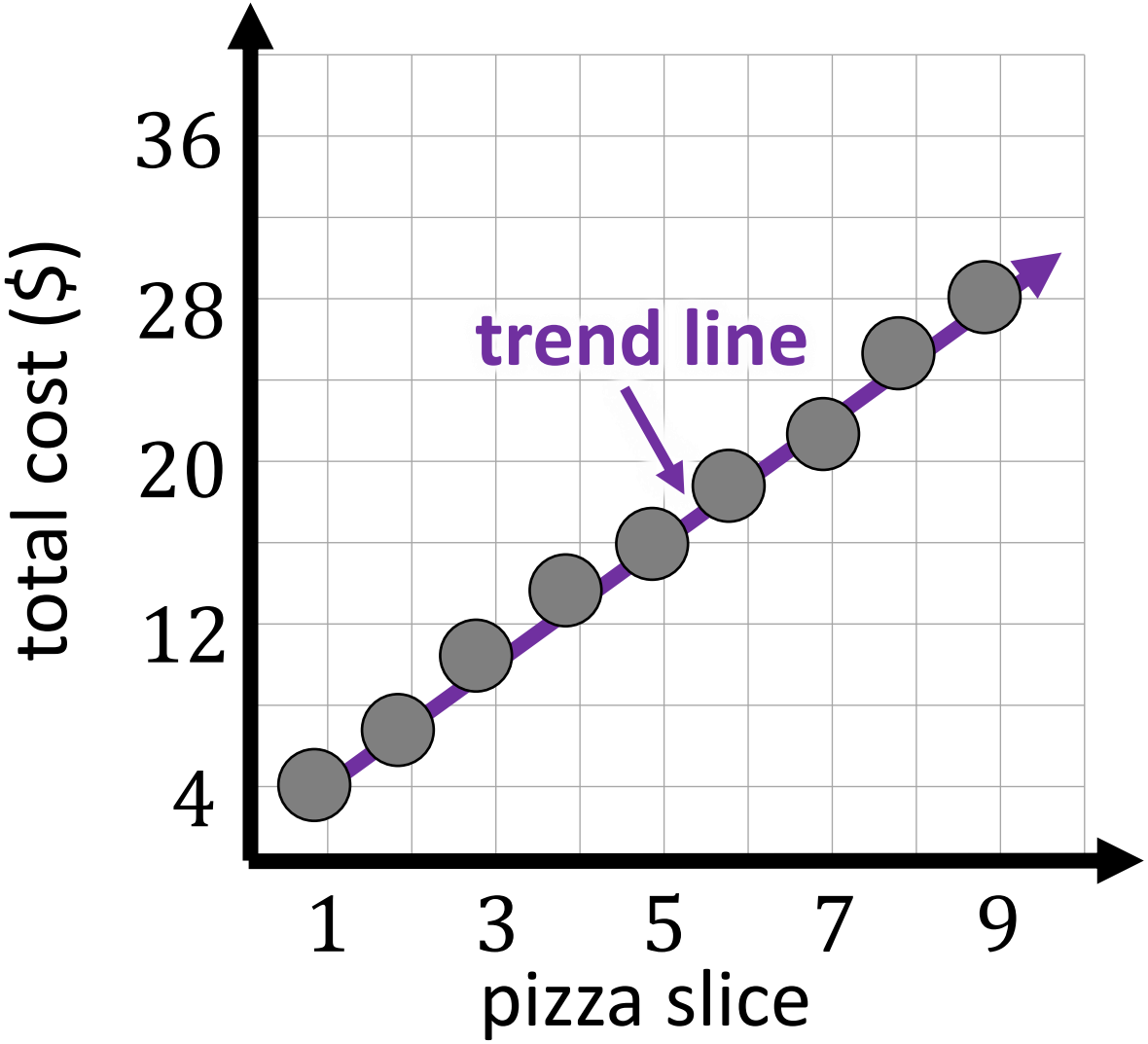
trend line



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unit rate

apples (lb.)	cost ($)
1	2
2	4
3	6
4	8

unit rate 1:2

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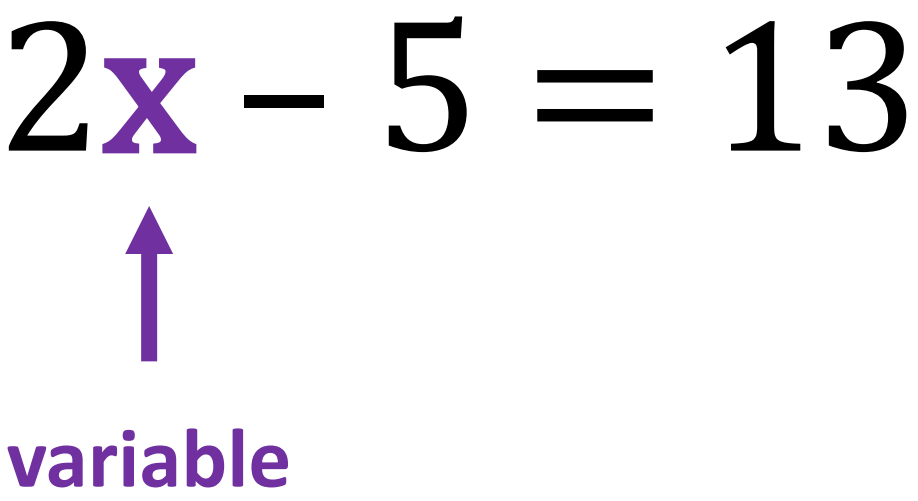
variable



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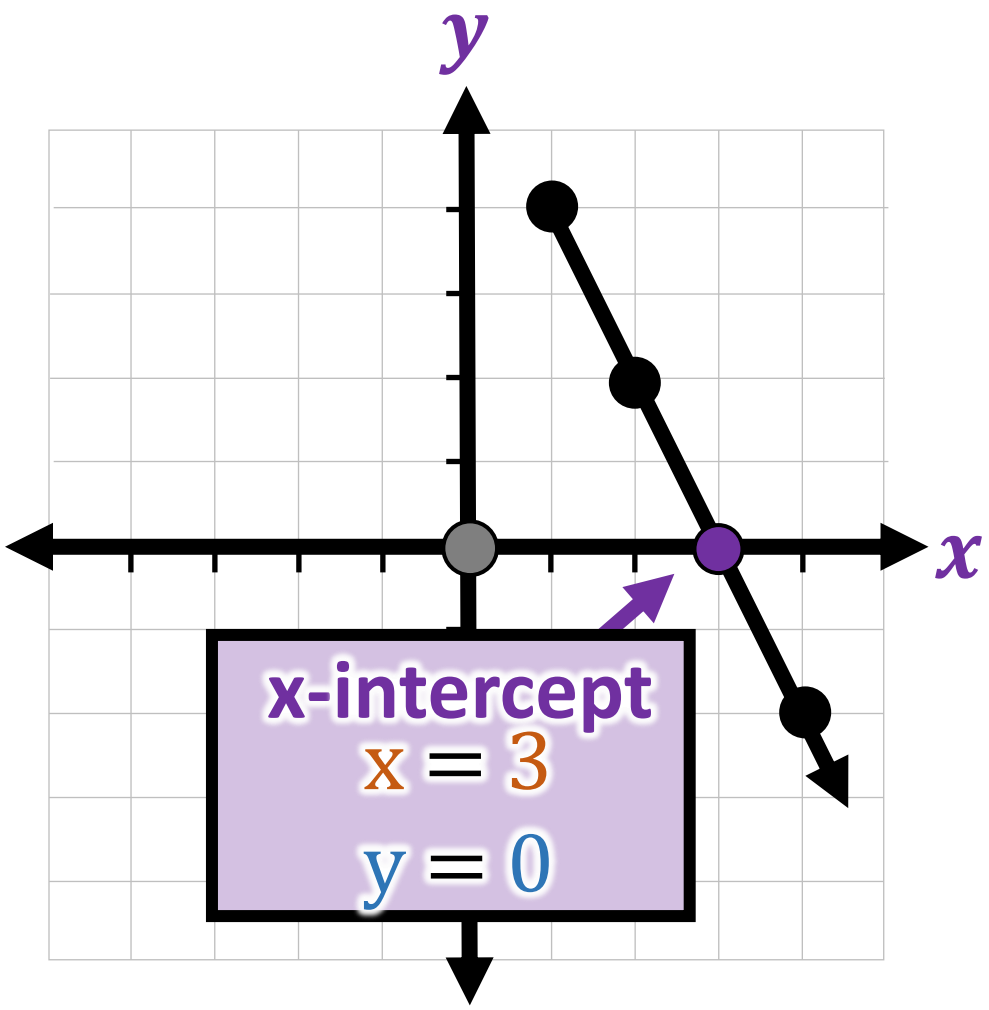
x-intercept



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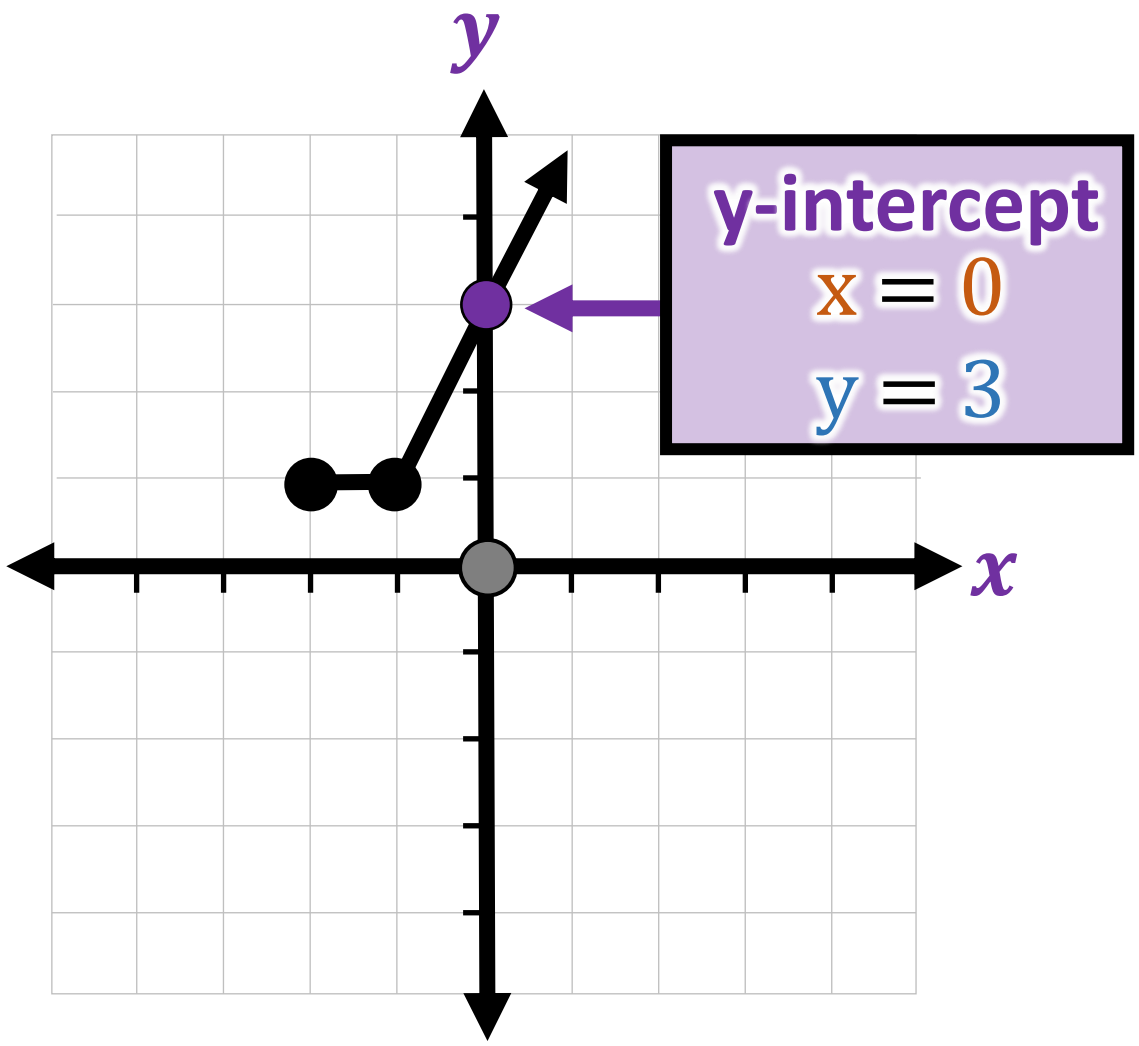
y-intercept



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