

Make sense of problems and persevere in solving them.

Student Mathematical Practice 1

I can make sense of problems and keep trying until I solve

Alabama Math, Science, and Technology Initiative





Reason abstractly and quantitatively.

Student Mathematical Practice 2

I can think about a math situation in words and symbols.



Eryn has $\frac{3}{8}$ of pizza left which Caleb says is less than the $\frac{5}{3}$ of pizza he has left.







Construct viable arguments and critique the reasoning of others.

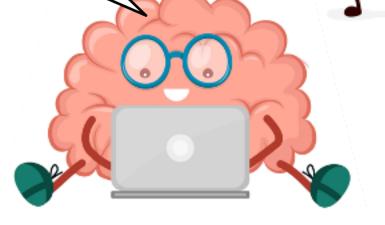
Student Mathematical Practice 3

I can explain my thinking and make sense of my classmates'

thinking.

The Desmos graph was drawn from the table. I see the point (-1, 3). I think that it doesn't belong.

I disagree. If you look at the table, the point (-1, 3) fits in the pattern between (-2, 4) and (0,2).





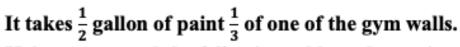




Model with mathematics.

Student Mathematical Practice 4

I can use math to solve real-world problems.



Kyle constructed the following table to determine how much paint he would need for all four walls.

Portion of wall	$\frac{1}{3}$	2 3	$\frac{3}{3}$ or 1	$\frac{12}{3}$ or 4
Gallons of paint	$\frac{1}{2}$	$\frac{2}{2}$ or 1	$\frac{3}{2}$ or $1\frac{1}{2}$	$\frac{12}{2}$ or 6

What is the volume of ice cream inside the cone?



You have \$12 and have to give a friend \$3.75. How much will you have left?





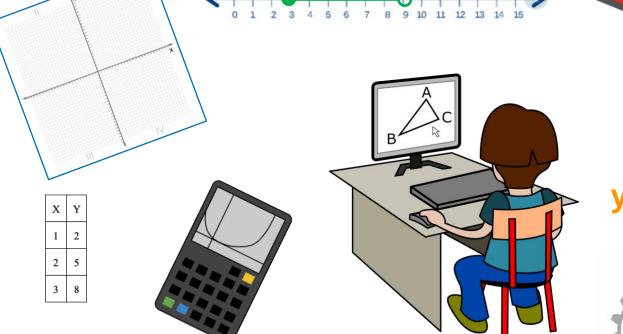


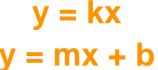
Use appropriate tools strategically.

Student Mathematical Practice 5

I can use the best tools to solve a problem.









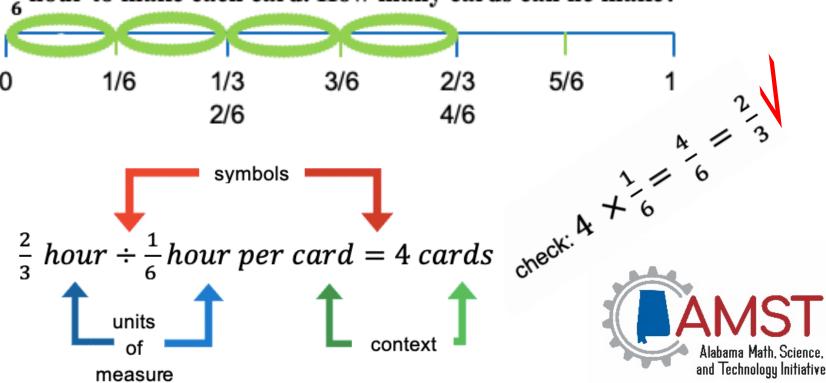


Attend to precision.

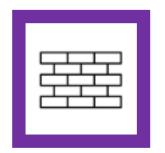
Student Mathematical Practice 6

My thinking is clear and my answers are correct.

Keenan has $\frac{2}{3}$ of an hour to make cards. It takes him $\frac{1}{6}$ hour to make each card. How many cards can he make?





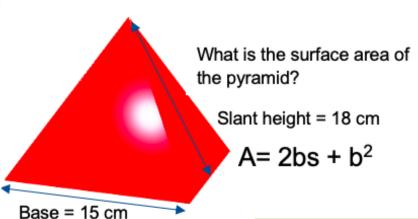


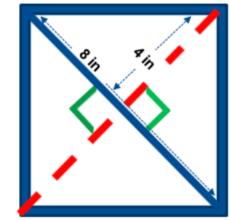
Look for and make use of structure.

Student Mathematical Practice 7

I look for patterns and use them to make problems easier







$\frac{1}{2}$ b x h = area of		
$\frac{1}{2}$ (8 in) x 4 in = 16 in ²		
2 triangles ∴		
2 (area of 🔼) =		
the area of		
2 x 16 in ² = 32 in ²		

x2	Week	Total Amount of Money	x2
		Saved	
	1	\$1.50	
	2	\$3.00	71
	3	\$4.50	
	4	\$6.00	
	5	?	

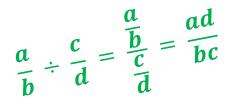




Look for and express regularity in repeated reasoning.

Student Mathematical Practice 8

I notice when calculations are repeated and understand when I can take shortcuts.



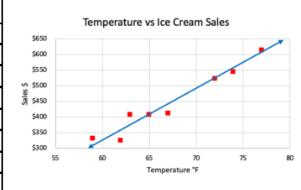


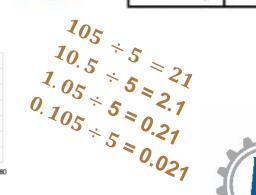
Give a probability model for flipping a coin.

Sample space S = {heads, tails} Each outcome has Probability (P) = $\frac{1}{2}$

Outcome	Heads	Tails
Probability	1 2	1 2

Temperature vs Ice		
Cream Sales		
74	\$544	
62	\$325	
63	\$408	
59	\$332	
65	\$406	
72	\$522	
67	\$412	
77	\$614	







SMP #1 Make Sense of Problems & Persevere in Solving Them.

Make Sense &

Keep Trying

SMP #5 SMP #6 Use appropriate tools

> **Best Tools** For Problems

strategically.



SMP #2 Reason abstractly and quantitatively.

> Think with Words & Symbols



Attend to precision.

Clear Thinking & **Correct Answers**



SMP #3 Construct viable arguments & critique reasoning of others.

Explain my Thinking & Thinking of Others



mathematics.

SMP #4

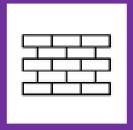
Model with

Graphs, Words, Symbols For Real World Math



SMP #7 Look for and make use of structure.

Patterns & Structure to Make Easier



SMP #8 Look for and express regularity in repeated reasoning.

Repeated Calculations & Short Cuts



SMP #1
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Problems &
Persevere in Solving
Them.

Make Sense & Keep Trying



SMP #2 Reason abstractly and quantitatively.

Think with Words & Symbols



SMP #3
Construct viable
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SMP #4 Model with mathematics.

Graphs, Words, Symbols For Real World Math



SMP #5
Use appropriate tools strategically.

Best Tools For Problems



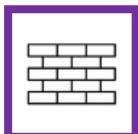
SMP #6
Attend to precision.

Clear Thinking & Correct Answers



SMP #7
Look for and make use of structure.

Patterns & Structure
To Make Easier



SMP #8
Look for and express
regularity in
repeated reasoning.

Repeated Calculations & Short Cuts



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Make Sense & Keep Trying



SMP #5
Use appropriate tools strategically.

Best Tools
For Problems



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Reason abstractly and quantitatively.

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SMP #6
Attend to precision.

Clear Thinking & Correct Answers



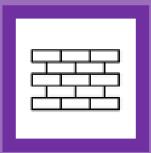
SMP #3
Construct viable
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Explain my Thinking & Thinking of Others



SMP #7
Look for and make
use of structure.

Patterns & Structure to Make Easier



SMP #4
Model with
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Graphs, Words, Symbols
For Real World Math



SMP #8
Look for and express
regularity in repeated
reasoning.

Repeated Calculations & Short Cuts

