Mrs. Powers'
Math Market

Mr. Swift, Manager

Where math earns cash... (fake cash...but cash)



Come on down to the Math Market...



and sell back the solutions at a profit!

As the difficulty increases...

So does the risk!

...but the profits increase as well!





- We will get into random groups of 2 or 3.
- Each team elects a captain.
- Each team will be given \$5 to start.
- Each team earns money to buy more valuable problems.





- The captain can approach the sales counter and buy any level of problem they choose.
- The captain returns to their team to work through the problem on their board.
- The captain records the team's answer on their answer sheet.





- The captain then goes to the store manager.
- If the solution is <u>correct</u>, the captain can sell back the question for a profit and buy another question from the sales counter.
- If the answer is <u>incorrect</u>, the captain may repurchase the same question and make another attempt or purchase a new question.





- There is a limited number of questions at the math market.
- Each team may only purchase/ work on one problem at a time.
- Teams will be given a two minute warning before the market closes.
- The team with the most money at closing time wins!

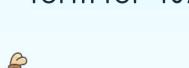


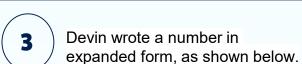
Specifics...

Level of Question:	Cost:	Amount earned if correct:
\$	FREE	\$5
Š Š	\$5	\$15
\$ \$	\$10	\$25
S S S	\$20	\$40

1

What is the word form for 407,219?





500,000 + 90,000 + 3,000 + 20 + 8

Write Devin's number in standard form.

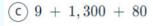




Which expression represents the number 13,809 written in expanded form?



B 13,000 + 800 + 90







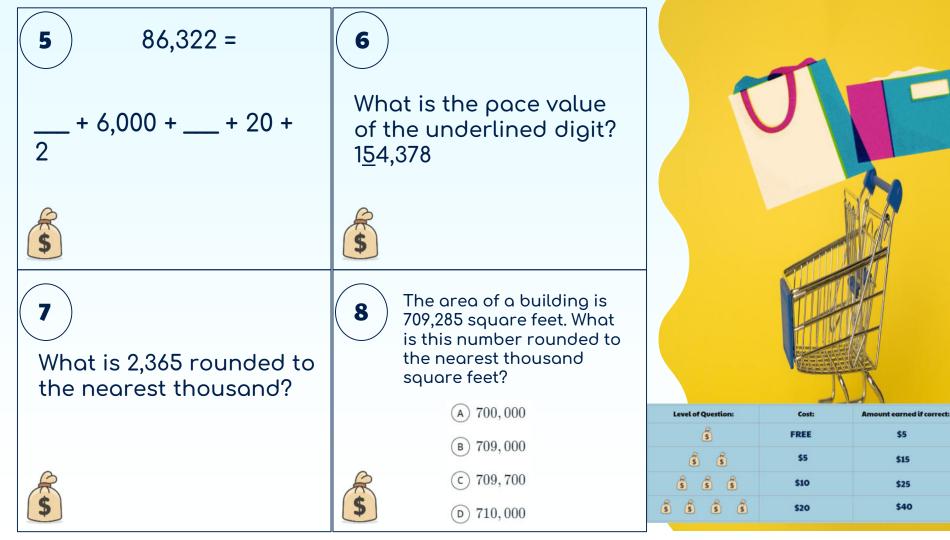


Which number sentence correctly compares two numbers?

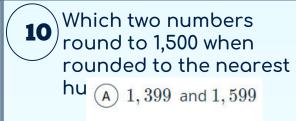
- $\stackrel{\frown}{\sf A}$ forty-six thousand three hundred fifteen <46,350
- (B) 29,073 = 20,000 + 9,000 + 700 + 3
- (c) 10,000+6,000+400 >sixteen thousand four hundred ten
- \bigcirc 86, 502 = 80, 000 + 6, 000 + 500 + 20



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- 9 4 thousands + 3 tens + 5 hundred is less than which number below?
 - \bigcirc A thousands + 5 tens + 3 hundreds
 - (B) 8 hundreds + 3 thousands + 8 ones
 - \bigcirc 4 thousands + 7 ones + 8 tens + 6 hundreds
 - $\bigcirc 9$ hundreds + 9 tens + 2 thousands



 \bigcirc 1,457 and 1,547



 \bigcirc 1,489 and 1,589

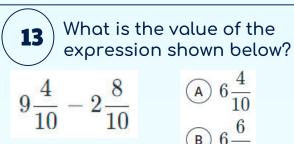
- Estimate the sum by rounding each number to the nearest hundred and then adding.
 - 2,752 + 4,587 = ____



12) Find the difference.



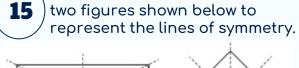
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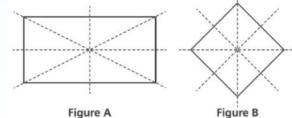




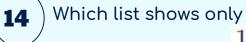


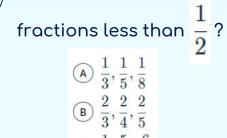






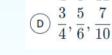
Which figure shows only the correct lines of symmetry?

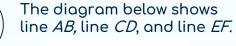


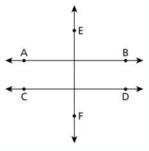




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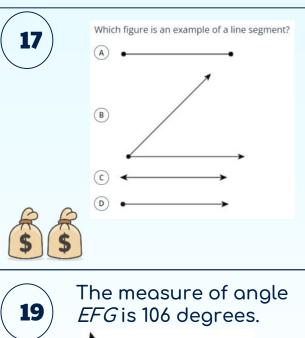


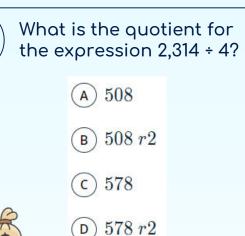


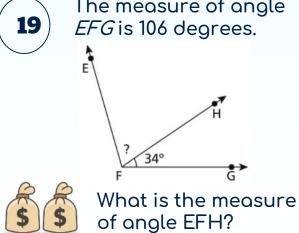
Identify two lines that appear to be perpendicular to each other.



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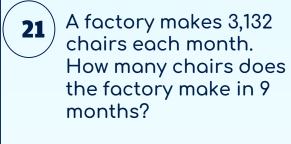


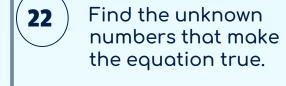
Mr. Fuller wants to put fencing around his rectangular-shaped yard. The width of the yard is 55 feet and the length is 75 feet. How many feet of fencing does Mr. Fuller need?



18





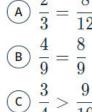






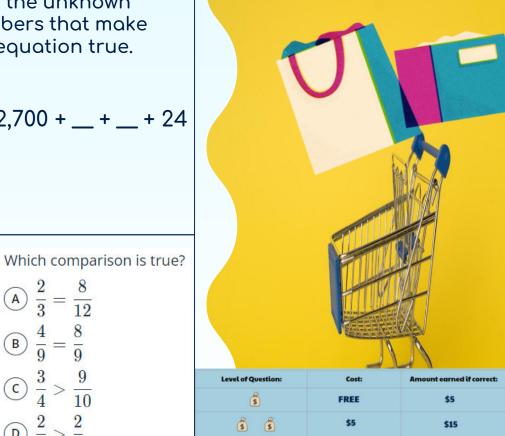
24

Identify the triangles by their angles.

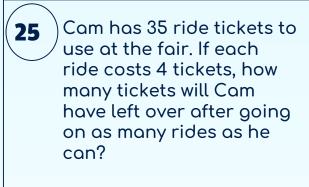


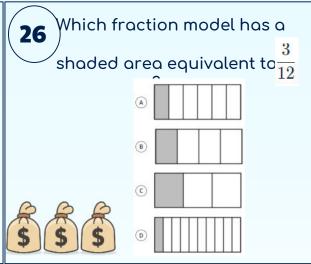
90°	50°	62°		36°
\$\$	\$	24°	120°	





Level of Question:	Cost:	Amount earned if correct:
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What is the measure, in degrees, of angle that is equivalent to $\frac{1}{360}$ of a circle?

(A)]

B) 90

c) 180

D) 360

Sam has 12 baseball cards. Aly has 4 times as many baseball cards as Sam. Draw a tape diagram to show the comparison of Sam's cards to Aly's.



28







The relationship between tickets earned and points earned in a game is described below.

- -1 ticket earned for every 9 points earned.
- -2 tickets earned for every 18 points earned.
- -3 tickets earned for every 27 points earned.

If the pattern continues, how many tickets are earned when 54 points are earned?





The shaded part of the model represents the fraction of a candy bar that Jill ate.



Tom has the same size candy bar. He eats 2 times the amount that Jill ate. what fraction of the candy bar does Tom eat?





32

A teacher buys the folders listed below.

- -5 boxes of red folders with 36 in each box
- -6 boxes of blue folders with 32 in each box

Which number is <u>closest</u> to the number of red and blue folders that the teacher buys?



B 380







Use each digit below to create a 5-digit number with the greatest value and a 5-digit number with the least value. Each digit can only be used once. Then write a number sentence using >, <, or = to compare the two numbers you created.

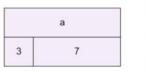
2, 9, 1, 3, 8

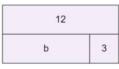






Find the value of each letter in the bar models.





С	С
4	14

	10	
d	d	3

8		е
е	е	3

	20	
f		g
4	f	f







a height of $\frac{1}{4}$ inch. The short tower is 5 blocks high and the tall tower is 9 blocks high. What is the difference in height between the short tower and the tall tower? Show your work.





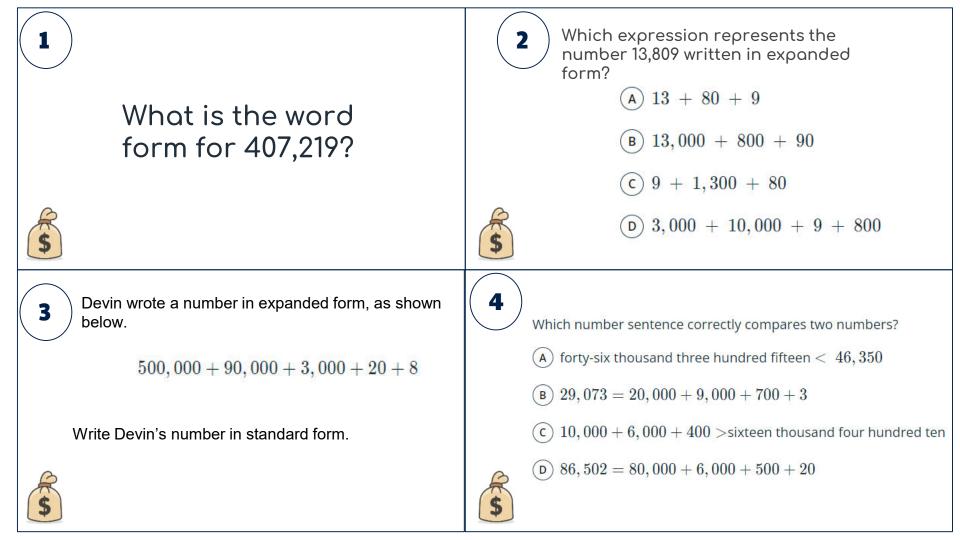
Robbie is in charge of sending out boxes from a distribution centre. The contents of the boxes are identified by shapes stamped on them: a heart, a moon, or a sun. All boxes with the same stamp have the same mass. The following diagrams show what Robbie observed when arranging some of the boxes and standard weights on a scale.

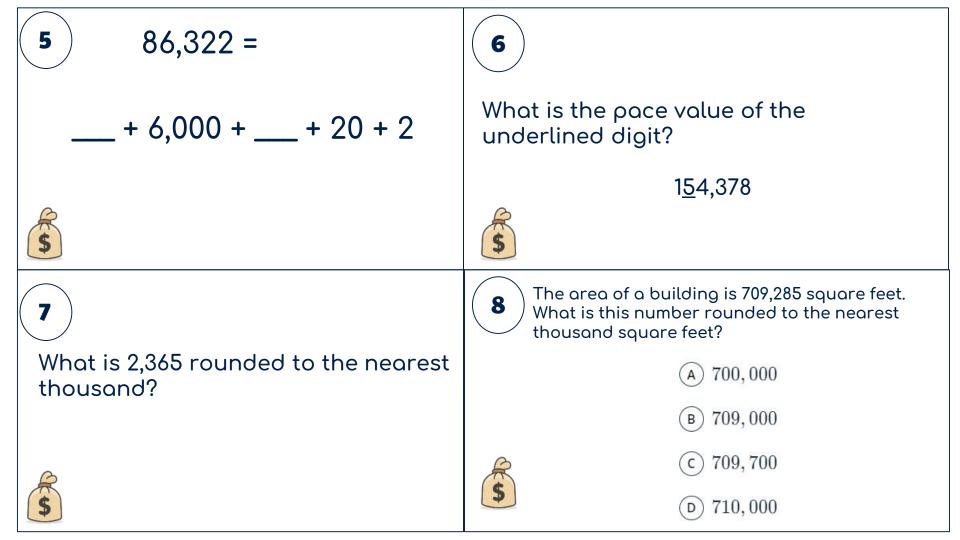


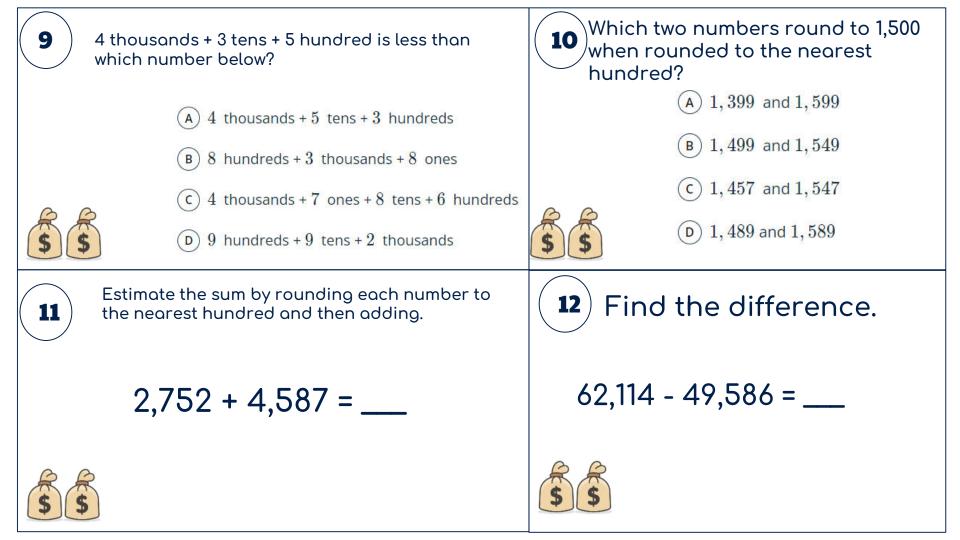


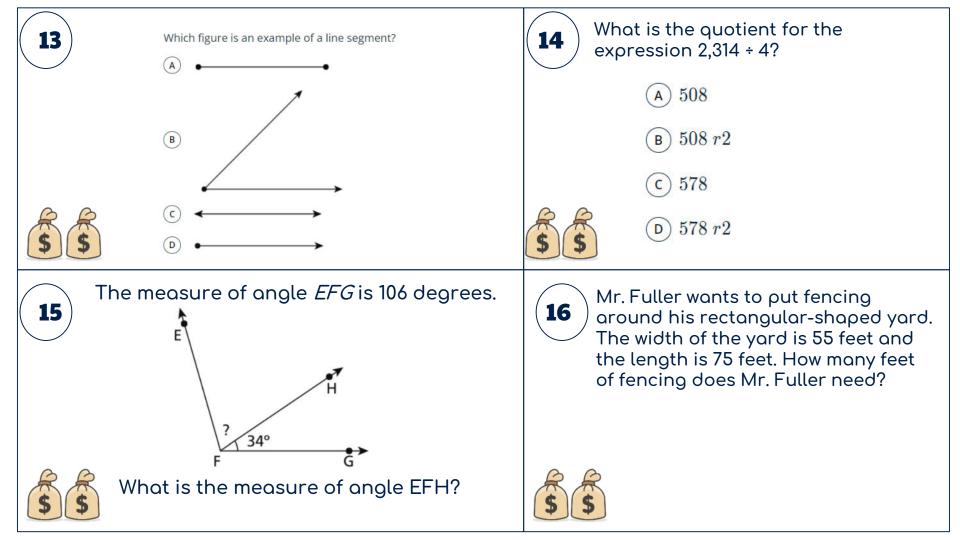
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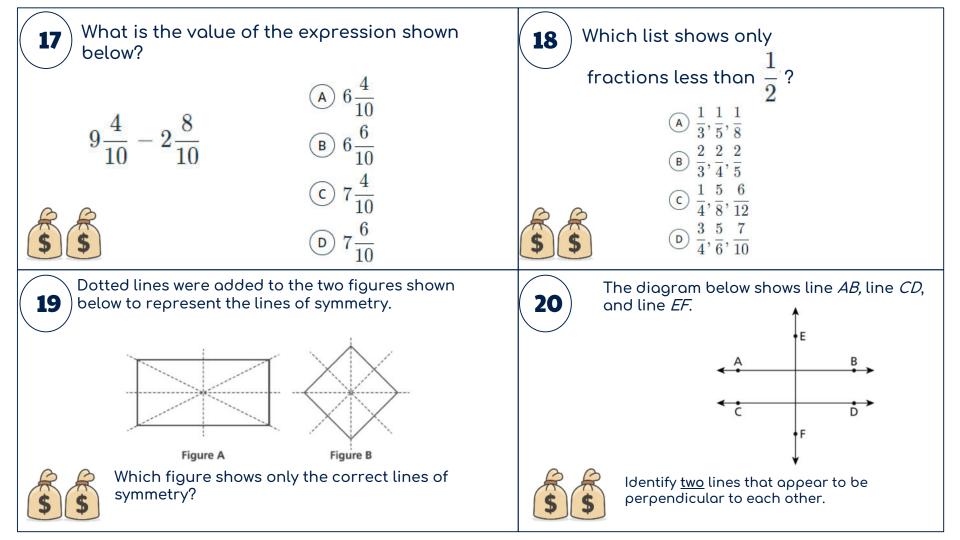


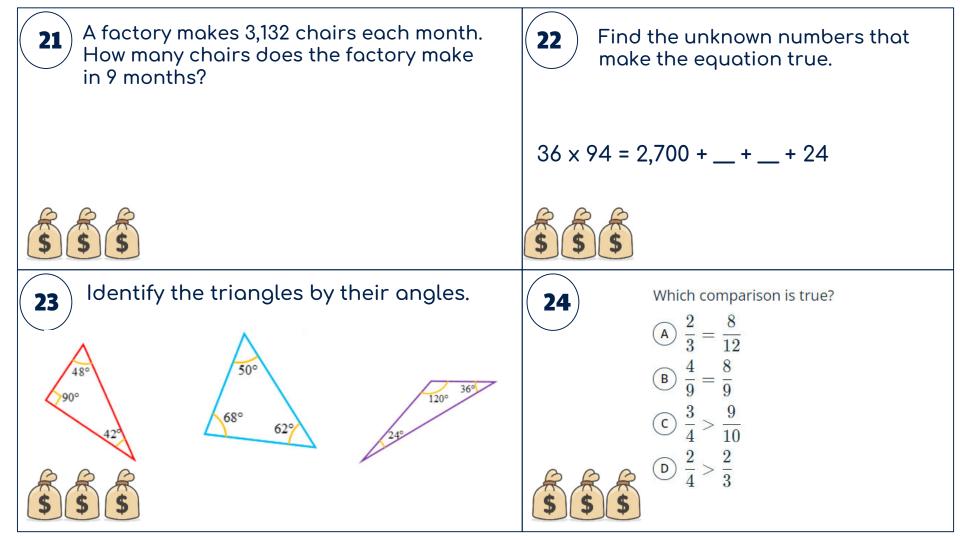


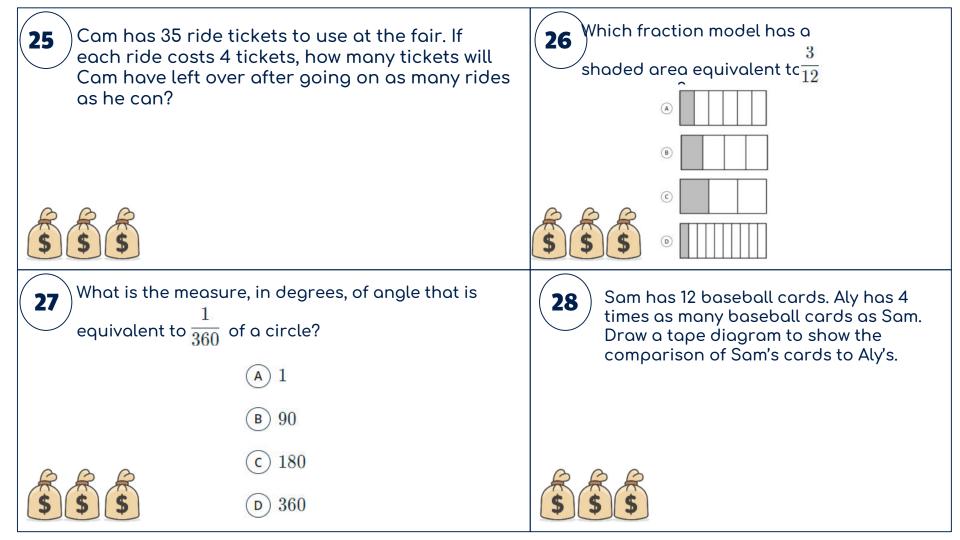


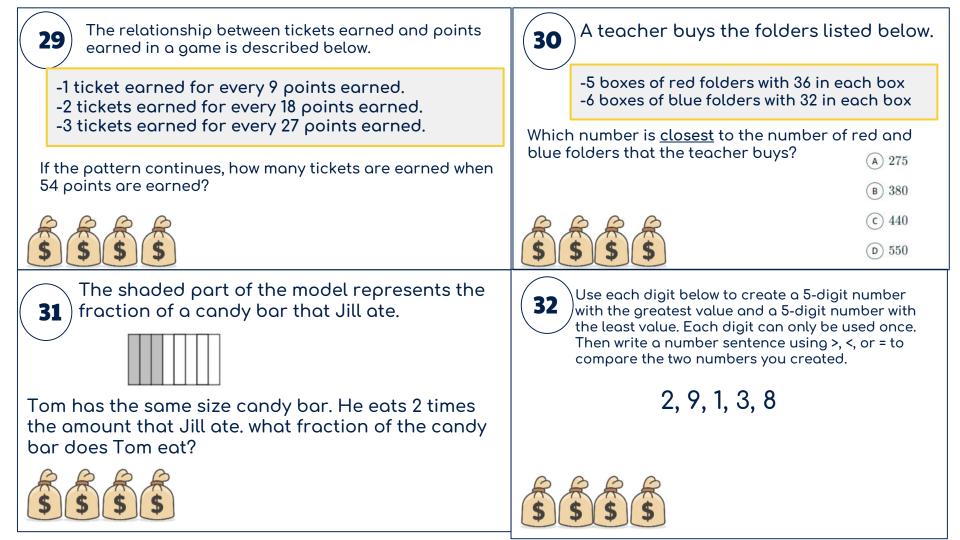






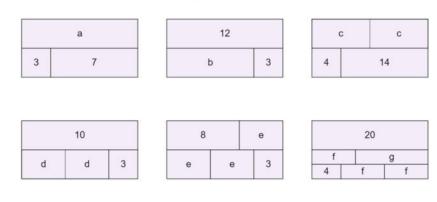








Find the value of each letter in the bar models.







A student is using wooden blocks to build two towers of different heights.

" f the blocks are the same size and have a height of

of the blocks are the same size and have a height of inch. The short tower is 5 blocks high and the tall tower is 9 blocks high. What is the difference in height between the short tower and the tall tower? Show your work.



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