ANSWERS FOR MATH AT HOME!

April 20, 2020 Edition 1

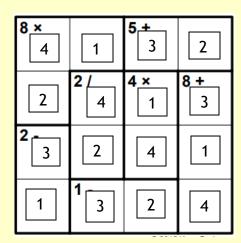
While everyone is "staying the blazes home", here are some fun Math activities to keep minds sharp and engaged.

KenKen

How to Solve KenKen® Puzzles

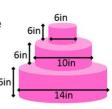
- 1. Fill in each square cell in the puzzle with a number between 1 and the size of the grid. ...
- Use each number exactly once in each row and each column
- 3. The numbers in each "Cage" (indicated by the heavy lines) must combine in any order to produce the cage's target number using the indicated math operation.

For this KenKen, use numbers 1 to 4. Also, / means ÷.



Cooking at Home

Maddie is making a 3-tier wedding cake based on the bride's sketch. One batch of frosting costs \$5 and covers 100 square inches. 6in If she does not frost the bottoms of each layer, how much will it cost Maddie to frost the cake?



Area is 249π or 782.3 in² Therefore need 8 batches which will cost a total of \$40.

Simplify (keep as a fraction):

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

12 29

Riddles:

- A tree doubled in height each year over the course of ten years until it reached its maximum height. How many years did it take to reach half of its height?

 9 years
- If 7 people meet each other and shake hands only once with each of the others, how many handshakes will there be?
- 3. What is at the beginning of eternity, the end of time, the beginning of every end and the end of every place?

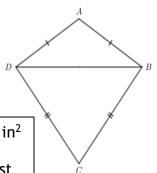
The letter "e"

4. If it takes Gary 1 hour to dig a hole 2 m long, 2 m wide and 2 m deep, at the same rate how long would it take him to dig a hole 4 m long, 4 m wide and 4 m deep?

8 hours

Go Fly a Kite!

A kite is composed of 2 isosceles triangles, ΔABD and ΔBCD . The height of ΔBCD is twice the height of ΔABD and the width BD is 1.5 times the height of ΔBCD . If the area of the kite is 1800 cm², what is the perimeter? Hint: Let x = height of smaller triangle.

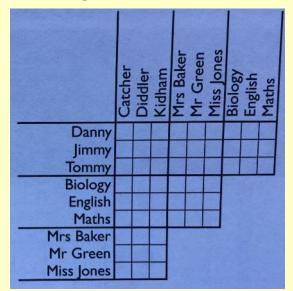


 $(20\sqrt{13} + 100)$ cm or approximately 172.1 cm

April Foolery

On April 1st, three lads played April Fools jokes on different teachers from their school. From the clues given, can you identify each lad and say what teacher of what lesson he managed to con?

- 1. Jimmy managed to catch the female biology teacher off her guard.
- 2. Young Diddler succeeded in fooling Mrs. Baker.
- 3. The Math teacher fell for Catcher's wiles.
- 4. Tommy's victim was not Mr. Green and Danny did not trick the English teacher, who is not Miss Jones.



Example →

		owners					breeds				
		Antta	Barbara	Douglas	Fernando	Ginger	beagle	Bollidog	chew chow	great dane	mañese
saeak	2006	\times		X	X				×		
	2007	\times	\times	\times		\times	\times	\times		\times	\times
	2008		\times	X	X	\times			\times		
	2009	\times			X				×		
	2010	\times			X			×	\times		\times
	Max					\times					
	Molly	\times	\times	X	X	•					
	Riley			×		\times					
	Samson	X				X					
	Shadow					X					

First Name	Last Name	Teacher	Subject		
Danny Jimmy	Catcher Kidham	Mr. Green Miss Jones	Maths Biology		
Tommy	Diddler	Mrs. Baker	English		



Answers for these will be in Edition 2. Stay safe and practice social distancing!