Treasure

Teacher's Guíde Grades 3 - 6

1

mf

Woot Math support@wootmath.com 1-855-WOOT-MATH 1-855-966-8628 @wootmath

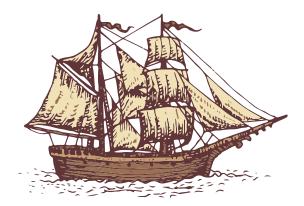




An unidentified sinkhole (about 200 feet down) on the Island of Bones, leading to a series of underground caves and rivers (similar to the cenotes of the Yucatan peninsula). Unknown to you, also the entrance to the rival pirate gang's lair.



Elena Curnow - "The Magpie of the High Seas", the pirate captain who left you and several of your shipmates in the sinkhole for insubordination Sadie "Swallowtail" Twynam - the rival pirate captain, with whom Curnow has an uneasy truce (but who secretly plans to betray your captain to the x government)







Explore the sinkhole -Reveal that it is an entrance to Swallowtail's lair -Break in

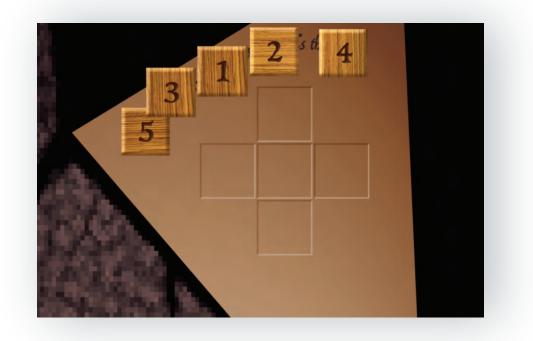




Solve for the pattern that will allow you to turn stones on the cavern wall without getting skewered by poison-tipped darts.

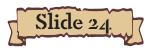
Slide 23

In these puzzles, arrange the pieces so the sum of the vertical tiles is equal to the sum of the horizontal tiles.

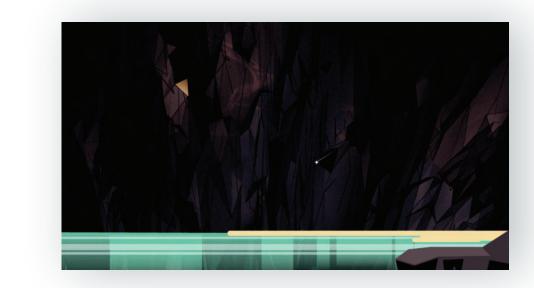


Solution: Vertical: 3, 5, 2 Horizontal: 4, 5, 1

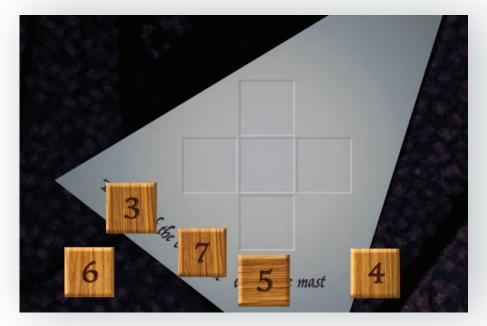




Students should find the small tan triangle and move it to "reveal" the puzzle.

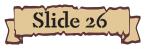




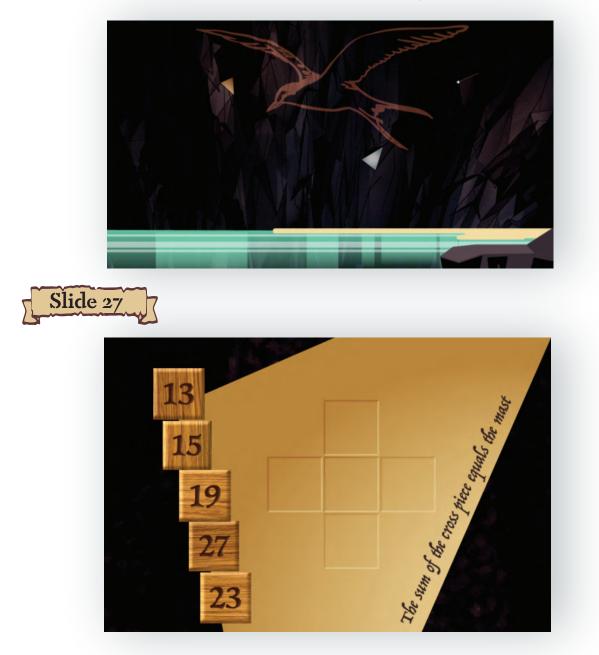


Solution: Vertical: 6, 3, 5 Horizontal: 7, 3, 4





Students should move the little white triangle to reveal the puzzle.



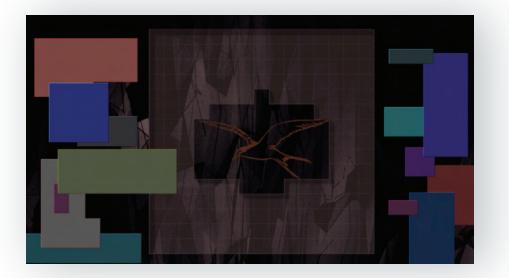
Solution:

Vertical: 19, 13, 23 Horizontal: 15, 13, 27





Arrange the pieces around the perimeter of the outlined swallowtail.



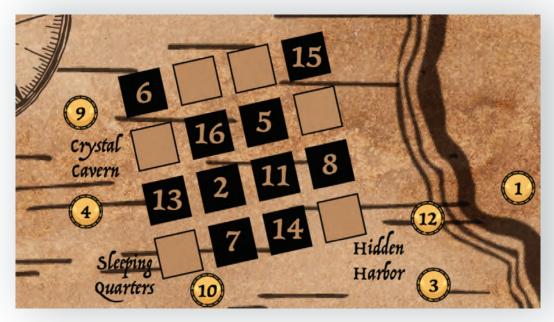




 \mathbf{Z} Solve the code in order to read the map.

Slide 32

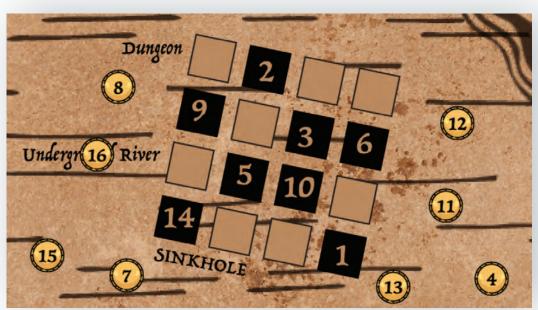
Complete the magic squares so that every row, column and diagonal have the same sum.







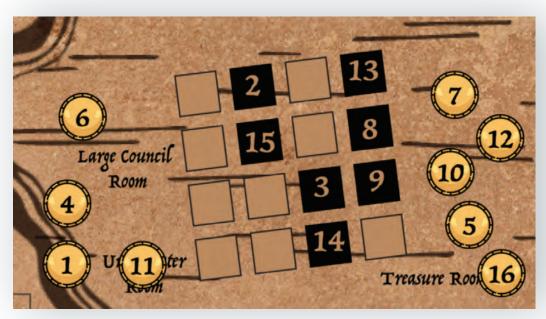












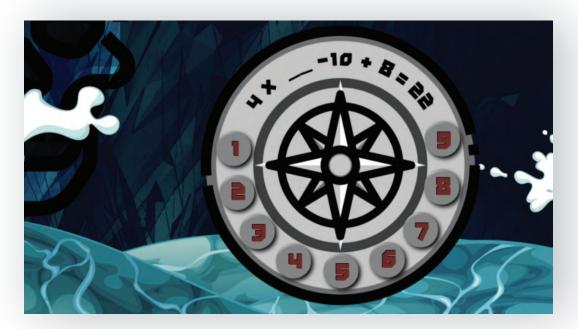




Solution While traveling down the underground river, select the correct number from the ring surrounding each equation in order to keep from drowning in the trap.



For slides 41-43, select the number(s) that make each equation true -- DISREGARD orders of operation and just calculate from left to right.

























Attempt to exit the sinkhole through the underground cave system (while getting a token for your captain), -Discover evidence of a plot

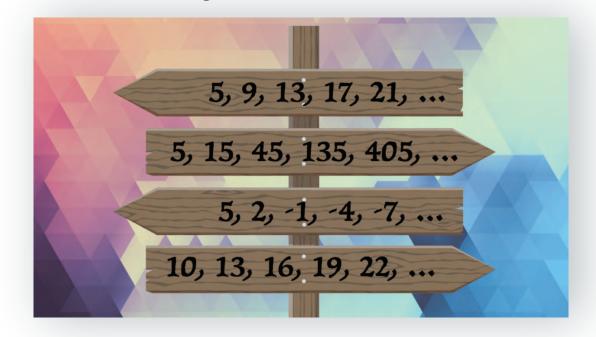




Solution 2018 Section 2018 Sect

Slide 4.8

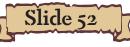
Students discuss which arrow section doesn't belong (there is a reason for every single one!) and then decide which way they want to go. There is help on "where to go" on the next slide.



There is NO CORRECT ANSWER. Each does not belong for a different reason. The next slide says "with an uneasy glance" because you can't fully know.

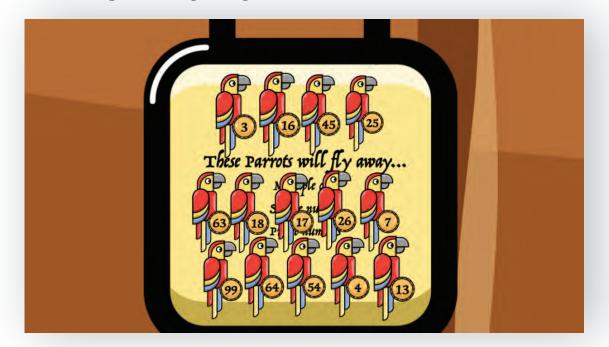


Solve the code to enter the Treasure Room.



Determine which parrot is left after the following ones have flown away.

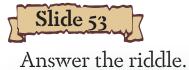
- 1) Parrots with a multiple of 9 fly away.
- 2) Square number parrots fly away.
- 3) Prime number parrots fly away.

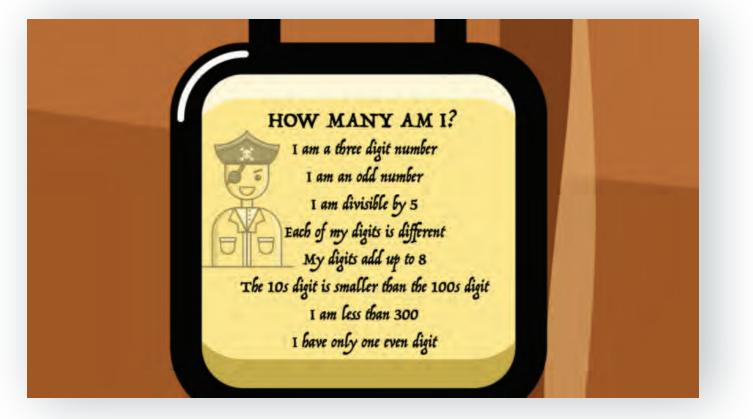


Solution:

Last parrot is 26! Prime: 3, 17, 7, 13 Square: 16, 25, 64, 4 Multiple of 9: 45, 63, 18, 99, 54



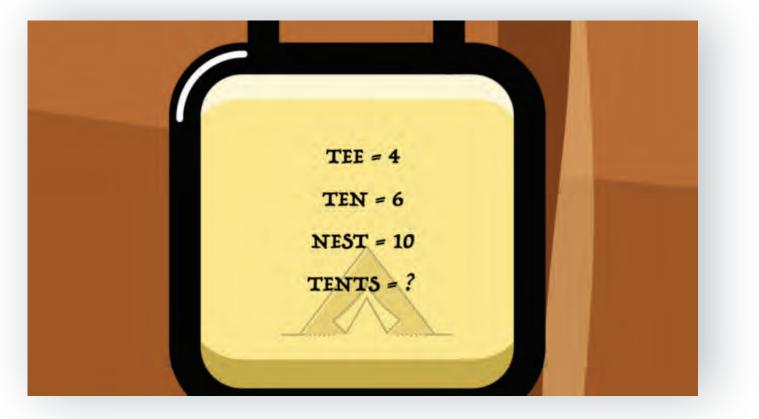








Answer the riddle.



Solution: E = 1 T = 2 N = 3 S = 4TENTS = 12



Solution Calculate to free the treasure you choose for your captain.



Add to 25 in each box.



Solution: MULTIPLE ANSWERS!

Examples: {15,10} {13, 8, 4} {11,9,2,2,1} {11,10,4} {15,8, 2} {13, 9, 2, 1} {13,11,1} {15,8,2} {10,9,4,2}







Spy on Swallowtail's pirates -Uncover the plot against your captain

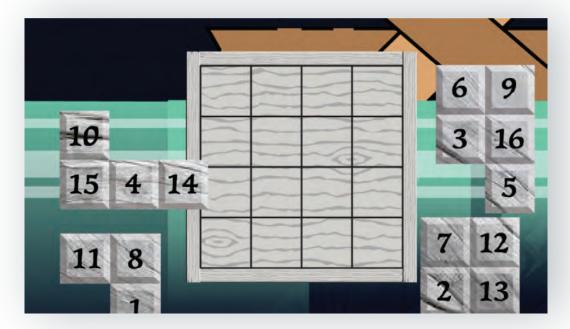




Solve the way to get into the Council Chamber through a back entrance (map the underwater route, as hinted at in the decoded map).

Slide 75

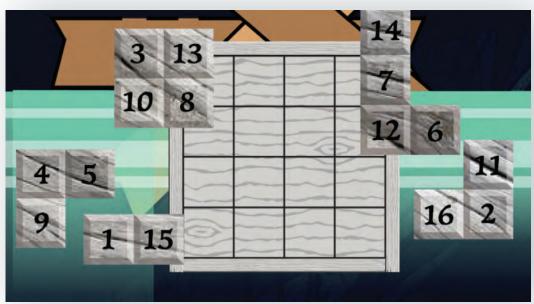
Complete the magic square by moving the pieces around so that each row, column and diagonal have the same sum -- 34.





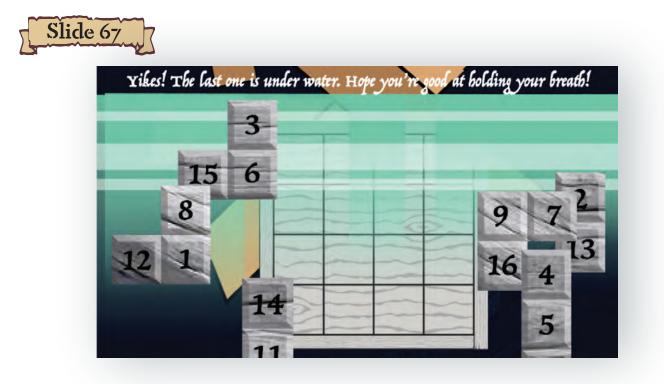












Solution: Note that this one is a little ticky with multiple pieces that are the same shape, so it's important to make sure they fit and produce the right solution.



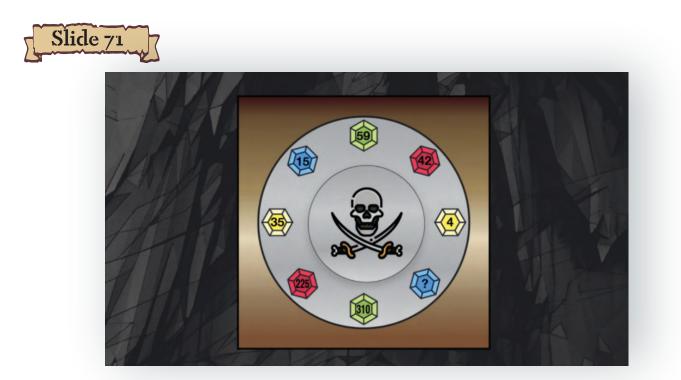


Solution 2018 Section 2018 Sect





Solution: Double the lower number of a color and add 1 to get the higher number of the same color. So, the answer is $(10 \times 2) + 1 = 21$.



Solution: The smaller number is equal to the larger number divided by 5, then subtract 3. So, (15/5) - 3 = 0.



Solution: Square smaller number and divide by 2 to get larger number $10^{(2)}/2 = 100/2 = 50$.





Solve the riddle.

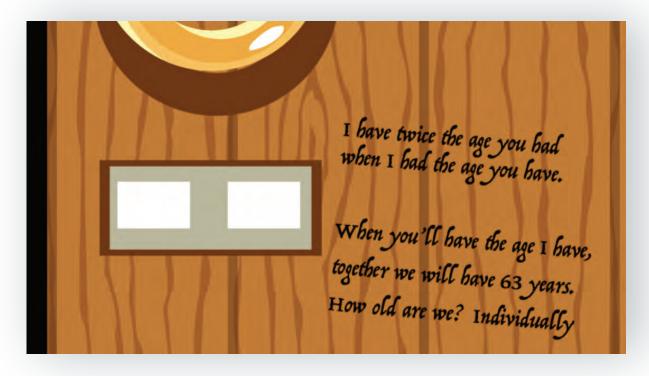


Solution: Multiple answers - one possible answer: 692703





CHALLENGE for younger learners. Solve the riddle.



Solution: 28 and 21







Foil the plot -Escape the sinkhole

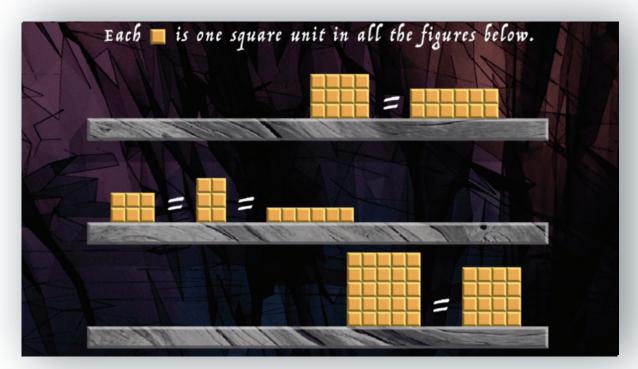




Solve the puzzle to open the doorway to the Hidden Harbor.

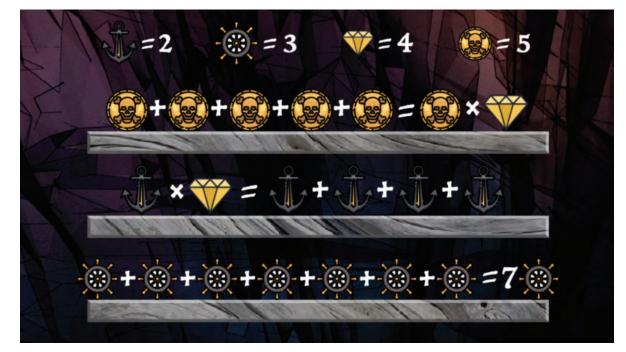


Which is false?



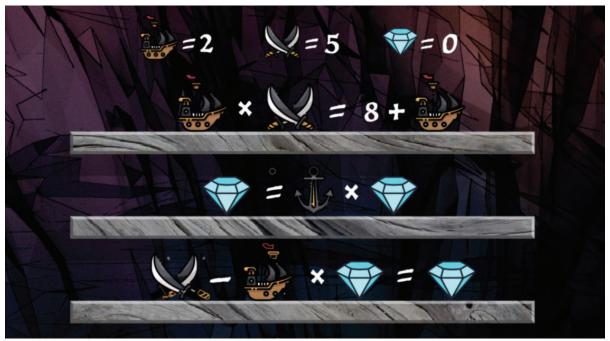
Solution: The third shelf is false.





Solution: The first shelf is false.



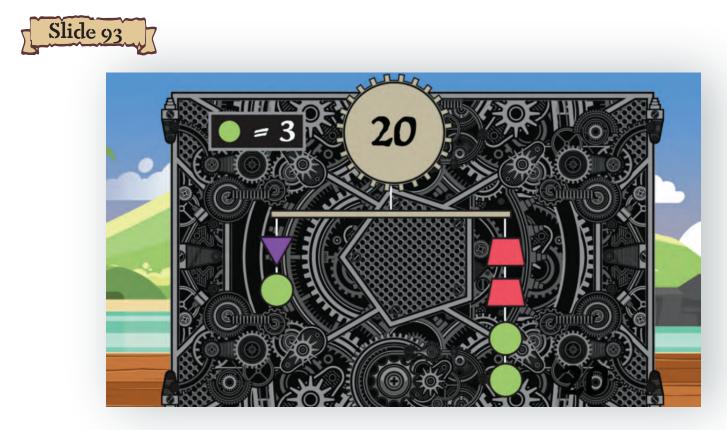


Solution: The last shelf is false when using order of operations.





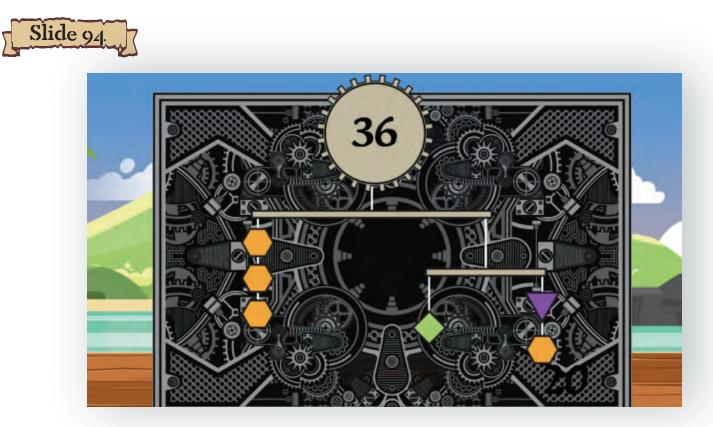
Solution: The second shelf is false. *Help students with fractions if too difficult. Search At the Hidden Harbor, use a series of pulleys as an elevator system to reach the cage of the trained swallows, then solve the lock to open their cage and send a message of warning to your Captain.



Solution:

Green Circle = 3 Purple Triangle = 7 Red Trapezoid = 2





Orange Hexagon = 6 Green Diamond = 9 Purple Triangle = 3







Orange Hexagon = 9 Blue Triangle = 1 Red Teardrop = 8 Green Circle = 5







Orange Teardrop = 9 Blue Triangle = 2 Red Heart = 4 Purple Hexagon = 1

Hint: Using a system here is helpful. You can find hearts first and then set up a system to find the triangle and teardrop.



Steal a boat and exit the Harbor without setting off the explosives at its mouth.

Slide 100

Using the numbers 1-8, arrange to have each horizontal and vertical line add to the middle number.

