

Maths

Well Done! You've made it to the end of term. This week, I have set you a challenge. Can you solve the mystery of the missing pirate treasure? You will need to use lots of skills we have learnt this year to find the location of the treasure.

Maths Skills Practise:
Daily Challenge:

JULY MATHS MASTERS

Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Have fun doing a Maths question a day!		1 If $3x = 255$ what is the value of x ? How did you work out the answer?	2 Partition 1345 in 3 different ways.	3 Put these numbers in ascending order: 1453, 3541, 1454, 1353, 3514.	4 What's missing in this sequence: 3, 7, 15, 31, _____. How do you know?	5 If $y = 0.7$, what is the value of x in ' $5y = x$ '?
6 What is 2020 in Roman Numerals?	7 What is the product of 1, 50 and 7? What does product mean?	8 What are the properties of a square based pyramid? Can you draw one?	9 Two thirds of a number is 102, what was the number?	10 What is 7,489 rounded to the nearest 10? Nearest 100?	11 Calculate $5 \times 18 - 6$.	12 Which number is smaller: 45731 or 45137? Describe how you know.
13 $19 + 6 \times 5 = 125$. Is this right? Why?	14 Describe the angles in a scalene and isosceles triangle.	15 What is 9×50 ? What other calculations give you the same answer?	16 What is $5.03 + 9 + 0.56$?	17 What time is 13:15 in words? Can you draw it on a clock face?	18 Is 0.5kg the same as 50g? How do you know?	19 List all the square numbers less than 100.
20 What is four and a third subtract three quarters?	21 Jake says, "The area of rectangles is always less than their perimeters." Do you agree? Why?	22 How many ml in 6.04 litres?	23 Which fraction is smaller: $\frac{1}{3}$ or $\frac{9}{12}$? How do you know?	24 Can you draw a regular and an irregular heptagon?	25 What is $(4 \times 7) - (3 \times 2)$?	26 What number is represented here: MMDLI?
27 What is the largest amount of money you can have with only 3 coins?	28 What is 765,551 rounded to the nearest 1000?	29 How does 34 x 10 help you calculate 3.4×10 ? What else can you work out?	30 What is half 964? Can you work it out 2 ways?	31 TRICKY QUESTION: How many hours in the month of July?	Challenge yourself to talk to the people at home and show off what you know!	

Reasoning & Problem Solving

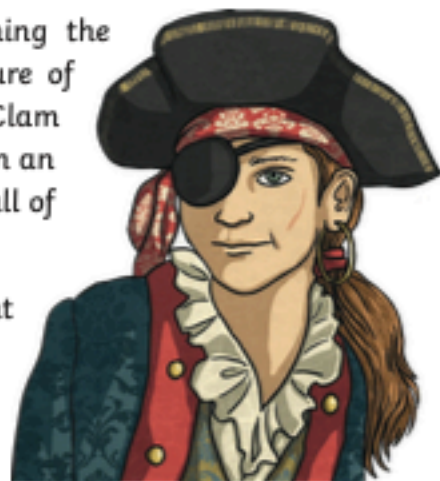
Try any of the challenges on this website:

<http://www.iseemaths.com/lessons56/>

The Mystery of the Missing Pirate Treasure

The pirates of the Jolly Jack have been searching the Caribbean for months looking for the lost treasure of the Crusty Clam. Legend has it that the Crusty Clam was damaged in a terrible storm and washed up on an island. In its hold was said to be a treasure chest full of gold, jewels and gems.

The Jolly Jack's captain, Olly Eyepatch, has thought of nothing but finding the lost treasure of the Crusty Clam. She has spent weeks searching through old pirate books and maps trying to find out which island the legendary treasure is buried on.



Can you help Olly Eyepatch and her pirate crew to solve the clues and find out which island the legendary treasure is buried on?

Good luck!



Location	Highest point above sea level	Population	Distance	Location of the island's treasure caves
Albatross Cliffs Island	220m	17 246	251 miles	north
Barnacle Beach Island	575m	82 105	164 miles	south-west
Cutlass Creek Island	8m	6504	25 miles	north-east
Deserted Island	22m	19 995	39 miles	south-west
Fenny Bank Island	3m	11 785	156 miles	north-east
Grotto Island	314m	22 700	264 miles	east
Golden Ghost Island	307m	1687	189 miles	south-west
Helter-Skelter Island	689m	8452	65 miles	west
Kelpie Bay Island	64m	21 564	100 miles	south-east
Limpet Lookout Island	192m	8658	36 miles	south-west
Mermaid Mile Island	60m	1562	8 miles	north-west
Poison Reef Island	1m	12 092	154 miles	south
Ring of Rocks Island	218m	560	92 miles	north-west
Sinister Pool Island	562m	861	87 miles	south-east
Vulture Valley Island	258m	9027	98 miles	south-east
Whitewater Bay Island	452m	2929	58 miles	south-east

The buried treasure can be found on: _____



Clue 1

Check these maths calculations. If a calculation is right, put a tick. If it is wrong, put a cross.

Count up the number of ticks and crosses.

If there are more ticks than crosses, the buried treasure is more than 150 metres above sea level.

If there are more crosses than ticks, the buried treasure is less than 150 metres above sea level.

	Right ✓	Wrong ✗
$32.6 - 21.52 = 11.8$		
$10.04 + 17.37 = 27.41$		
$2.3 + 1.84 + 3.07 = 6.94$		
$95.32 - 26.86 = 68.46$		
$1.257 + 15.682 = 16.939$		
$68.72 - 39.562 = 29.162$		
$15.686 + 39.868 = 55.554$		
$107.248 - 57.3 = 49.948$		
$84.732 - 69.92 = 14.64$		
Total		

Clue 1: _____



Clue 2

Use written methods of multiplication and division to solve these calculations. Colour the answers in the table below. Re-arrange the shaded words to find the second clue.

1. $18 \times 36 =$	2. $756 \div 9 =$	3. $8.2 \times 12 =$
4. $1024 \div 8 =$	5. $19 \times 28 =$	6. $65 \times 92 =$

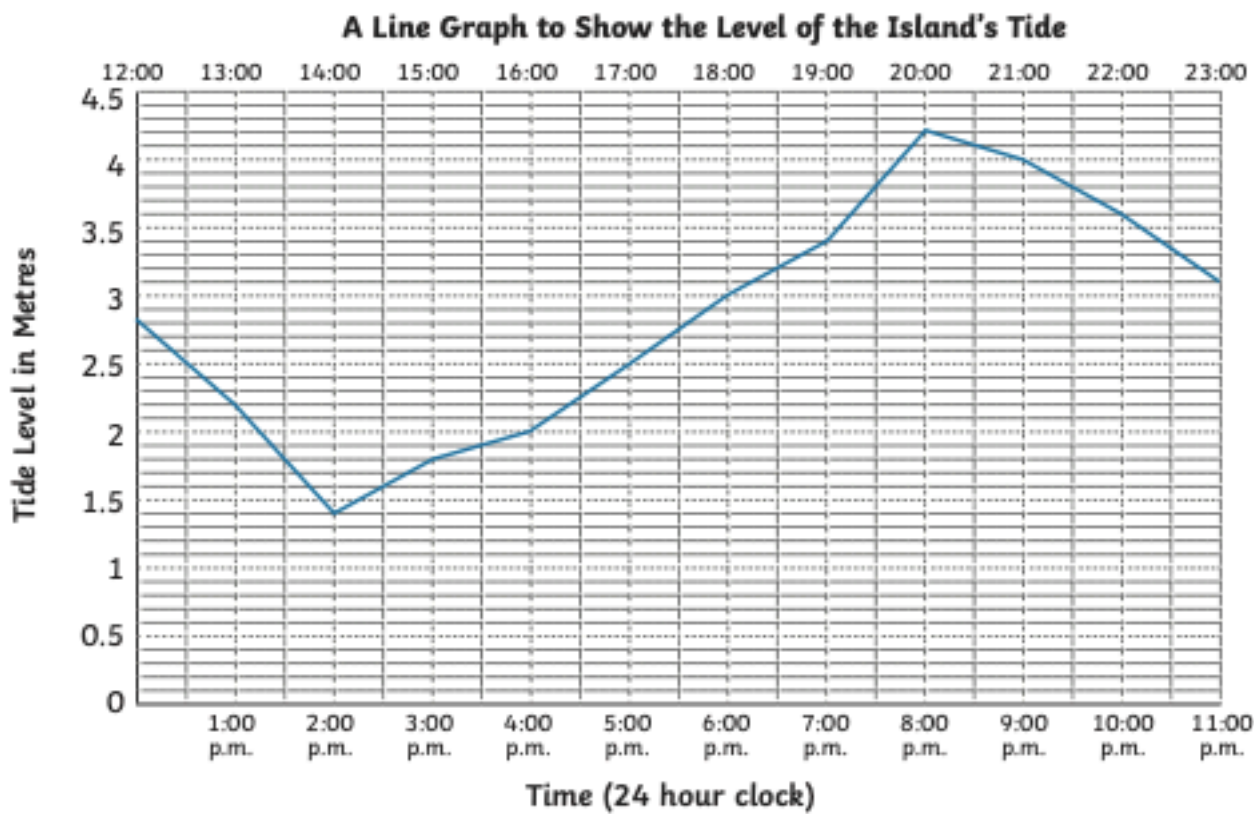
98.4 the	92.4 is more than	88 one thousand	540 six thousand
84 of the	532 population	640 five thousand	130 four thousand
648 island	128 is less than	5980 ten thousand	6980 three thousand

Clue 2: _____



Clue 3

Answer the questions about the tide on the mystery treasure island. Colour the answers in the table below. Re-arrange the shaded words to find the third clue.



- What is the height of the tide at 3:00 p.m. in the afternoon?
- How many hours did it take for the tide to change from its lowest level to its highest level?
- What is the height of the tide at 7:00 p.m.?
- By how many metres did the tide level change between 2:00 p.m. and 8:00 p.m.?
- By how many metres did the tide level change between 8:00 p.m. and 11:00 p.m.?

6 hours	1.7 metres	1.2 metres	1.1 metres
the	is less than	60 miles	70 miles
5 hours	3.4 metres	2.8 metres	1.8 metres
80 miles	island	is more than	away

Clue 3: _____

Clue 4

Order each set of numbers from smallest to largest. Take the largest number in each set and colour it in the table below. Re-arrange the shaded words to find the final clue.

1.	2.6	1.84	1.8	1.805	2.06
	_____	_____	_____	_____	_____
2.	1.1	1.2	2.1	1.19	2.2
	_____	_____	_____	_____	_____
3.	$\frac{5}{8}$	$\frac{1}{2}$	$\frac{5}{6}$	$\frac{11}{24}$	$\frac{2}{3}$
	_____	_____	_____	_____	_____
4.	56 235	56 181	56 824	65 455	56 881
	_____	_____	_____	_____	_____
5.	56.268	562.68	5.626	56 268	5626.8
	_____	_____	_____	_____	_____

the south-west 2.06	located in $\frac{5}{6}$	treasure caves 2.2	the north-east 2.1
island's 2.6	the south-east $\frac{2}{3}$	the north 56 881	the east 5626.8
are 65 455	the south 1.84	the north-west 56 268	the west $\frac{5}{8}$

Clue 4: _____

