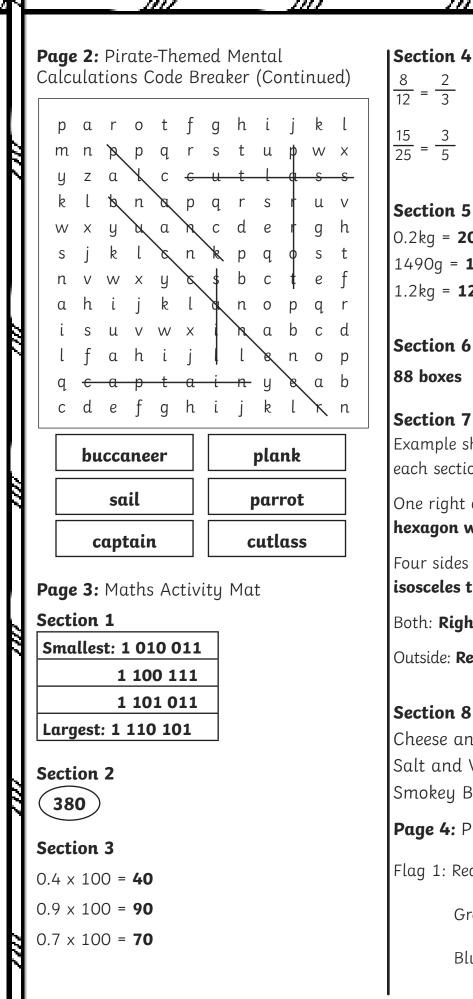


							R
							1
Page 1: Pi Calculation					Answer	Letter	П
Answer	Letter	Answer	Letter	1400 ÷ 10 <sup>2</sup>	14	р	Н
121		7044		62	36	ι	U
	a		n	$0.121 \times 10^{3}$	121	α	R
642	b	872	0	8140 - 1096	7044	n	Ν
125	С	14	р	72	49	k	Н
8	d	42	q	3 <sup>3</sup>	27	S	Н
12	e	7704	r	8053 - 7932	121	a	Н
11	f	27	S	6 <sup>3</sup>	216	i	
16	g	84	t	$4 \times 3^2$	36	l	N
22	h	100	u			-	$\prod$
216	i	27	V	$\frac{7}{12}$ of 24	14	р	Н
48	j	64	W	11 <sup>2</sup>	121	α	Н
49	k	120	X	36 357 - 28 653	7704	r	
36	l	66	у	6992 + 712	7704	r	N
603	m	144	Z	25 652 - 24 780	872	0	Ν
		Answer	Letter	$\frac{7}{12}$ of 144	84	t	Н
64 200 ÷ 1	100	642	b	5184 - 5059	125	с	
10 <sup>2</sup>		100	u	1.21 × 10 <sup>2</sup>	121	α	
0.125 × 10	000	125	с	$\frac{2}{5}$ of 35	14	р	
5 <sup>3</sup>		125	с	0.084 × 1000	84	t	Ľ
$\frac{11}{12}$ of 132		121	a	112	121	a	Н
15184 - 8	140	7044	n	21600 ÷ 100	216	i	Н
$\frac{3}{7}$ of 28		12	е	7.044 × 10 <sup>3</sup>	7044	n	Н
$\frac{2}{11}$ of 66		12	е				Ŋ
4052 + 36	52	7704	r	5 <sup>3</sup>	125	C	Ν
			1	10 <sup>2</sup>	100	u	
				0.84 × 100	84	t	
				$6^2$	36	l	
				$\frac{11}{100}$ of 1100	121	a	k
				3 <sup>3</sup>	27	S	N
				$\frac{3}{8}$ of 72	27	S	



72

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0.2kg = **200**g 1490q = **1.49**kg 1.2kg = **1200**g Section 6 88 boxes

Example shapes that could appear in each section:

One right angle: Irregular pentagon and hexagon with at least one right angle

Four sides or less: **Equilateral triangle**, isosceles triangle (no right angle)

Both: **Right angled triangle, square** 

Outside: Regular hexagon, regular octagon

# Section 8

Cheese and Onion: 4 Salt and Vinegar: 12 Smokey Bacon: 8

Page 4: Pirate Flags

Flag 1: Red =  $\frac{1}{3}$  **15 squares** Green =  $\frac{1}{6}$  **7.5 squares** Blue =  $\frac{1}{2}$  **22.5 squares** 

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Page 4: Pirate Flags (Continued) Flag 1: Area =  $45 \text{ cm}^2$ Perimeter = **32cm** Flag 2: Red =  $\frac{1}{4}$  **8.5 squares** Green =  $\frac{1}{8}$  **4.25 squares** Blue =  $\frac{1}{2}$  **17 squares** White =  $\frac{1}{8}$  **4.25 squares** Area = **34cm<sup>2</sup>** Perimeter = **28cm** 

# Page 5: Pirate-Themed Mental Calculations Mosaic

3997 +	4265 +	5488 +	6526 -	5587 -	7044 -	6071 +	4250 +	5217 +
60	70	60	40	70	90	80	60	70
5018 +	5444 +	5629 +	6143 -	6857 -	7033 -	5567 +	5625 +	4954 +
80	90	80	70	20	80	80	10	90
6146 +	6177 -	6271 -	6585 +	6927 -	5693 +	5782 +	5587 +	6748 -
80	50	60	90	60	90	30	20	40
4569 +	5534 -	2468 +	2956 -	4017 -	3541 +	2787 +	5413 +	4499 +
50	70	80	70	50	60	60	20	40
3963 +	2957 -	3016 -	5504 -	3078 +	5892 +	3520 +	2567 -	4755 +
70	40	50	10	80	90	40	50	60
4585 +	6971 +	2676 -	3455 -	3783 +	4037 -	2560 +	7526 +	4508 +
50	50	50	80	40	90	20	60	20
5206 +		3453 +	2527 -	1999 +	2087 -	3953 +	7037 +	5408 +
20		70	40	60	60	40	70	90
3914 + 90	4567 + 70	6982 + 20		7524 + 40		8274 + 80	3990 + 20	5400 - 90
4657 +	8486 +	9945	9514 -	8921 +	9254 +	8878 +	9426 -	5514 -
30	40	+20	40	70	60	80	70	20
8498 +	9466 +	9014 -	8889 +	9998 -	9754 +	9620 -	9927 -	9694 +
70	60	30	80	90	80	90	60	90

#### Extra Challenge:

8513 - 30 = 8473 is incorrect. The answer should be 8483.

							í.	
7204 +	6991 +	4526 +	5217-	5517 -	8486 -	8539 -	9877 -	7900 -
89	81	69	99	41	69	91	59	61
7777 +	8526 -	3953 +	6968 +	4083 +	7278 +	8926 +	8412 +	9150 -
49	61	69	39	81	99	61	91	51
7826 +	6989 +	5095 +	7834 -	3993 +	8186 -	8414 -	2456 +	7412 +
69	19	39	29	79	81	69	89	81
7842 -	7517 +	8096 +	8278 -	4606 -	8512 -	6978 +		7433 -
49	51	31	39	89	71	89		39
7077 +	8086 -	7522 +	8155 +	5122 +	7661 +	6994 +	2983 +	7940 -
69	81	71	19	29	59	49	39	51
7053 -	5486 +	5989 +	5294 +	4670 -	4525 +	7002 -	5475 +	7047 -
61	69	91	19	21	19	69	31	49
7007 - 81	5786 + 89	2414 + 99				3246 + 29	5687 + 79	5621 + 41
5479 +	5733 +	3847 +		2722 +	3033 +	2834 +	5555 +	7006 -
81	69	19		31	61	59	81	99
7018 - 21	5516 + 39	3456 + 21				2544 + 61	6017 - 29	6712 - 41
5806 +	7044 -	1567 +	2084 -	2322 -	1568 +	1275 +	5496 +	7002 -
69	49	19	49	81	61	39	11	11

# Extra Challenge:

2117 + 59 > 2223 - 89

True, 2176 is greater than 2134

9486 + 99 < 9568 - 71 False, 9585 is not less than 9497

1.5 + 3.2	9.2 - 4.4	12.3 - 2.1	16.4 - 5.1	20.0 - 8.8	3.5 + 2.1	6.4 - 1.8	7.5 - 3.2	14.5 - 10.1
2.4 + 3.1	17.6 - 6.2	11.3 + 0.5	3.6 + 0.2	1.8 + 1.9	9.7 + 0.8	7.4 - 2.8	5.8 - 1.4	3.1 + 2.4
6.0 - 1.1	3.7 + 3.9	5.6 + 2.2	7.6 - 6.2	4.2 - 1.6	5.7 + 5.2	4.7 + 1.2	2.9 + 2.9	7.5 - 2.8
4.1 + 1.5	10.5 - 2.8	4.7 + 3.3	8.4 - 4.6	3.7 - 1.1	6.5 + 5.1	5.4 - 0.9	2.0 + 3.7	6.5 - 1.4
9.6 - 5.2	9.9 - 2.2	1.3 + 0.5	19.8 - 7.9	18.4 - 8.2	12.1 - 1.3	14.3 - 3.2	3.8 + 0.9	8.1 - 3.7
10.8 - 6.3	2.7 + 1.4	1.2 + 3.9	11.1 + 0.8	12.6 - 1.7	14.3 - 2.6	10.1 + 1.8	1.4 + 3.7	2.8 + 3.2
2.2 + 3.3	1.9 + 3.5	4.6 + 7.2	3.9 + 6.8	17.5 - 6.8	6.3 + 3.7	12.5 - 3.4	16.5 - 4.6	2.9 + 1.1
4.2 + 1.4	1.7 + 2.5	14.3 - 2.5	2.3 + 8.4	5.5 + 4.2	11.5 - 2.7	10.0 - 1.4	8.4 + 4.2	8.4 - 2.8
6.1 - 1.2	8.4 - 3.7	9.2 + 2.5	5.4 + 6.5	7.4 + 0.9	6.2 + 2.1	7.2 + 0.9	16.6 - 3.4	9.3 + 4.4
18.3 - 14.1	1.1 + 4.7	8.2 + 1.9	9.2 + 2.1	2.5 + 7.2	6.8 + 2.3	10.7 - 2.5	20.0 - 6.2	14.8 + 0.9

### Extra Challenge:

Various answers are possible – for example, 12.1 – 1.3 because the other answers all have 7 in the tenths column or 14.8 + 0.9 because its answer has an odd number of ones.





**Page 9-13:** The Mystery of the Missing Pirate Treasure

#### Clue 1

	Right 🗸	Wrong 🗙
32.6 - 21.52 = 11.8		× (11.08)
10.04 + 17.37 = 27.41	✓	
2.3 + 1.84 + 3.07 = 6.94		× (7.21)
95.32 - 26.86 = 68.46	✓	
1.257 + 15.682 = 16.939	✓	
68.72 - 39.562 = 29.162		× (29.158)
15.686 + 39.868 = 55.554	✓	
107.248 - 57.3 = 49.948	$\checkmark$	
84.732 - 69.92 = 14.64		× (14.812)
	Total 5	4

Clue 1:

The buried treasure is more than 150 metres above sea level.

#### 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 × 36 = <b>648</b>	2. 756 ÷ 9 = <b>84</b>	3. 8.2 × 12 = <b>98.4</b>
4. 1024 ÷ 8 = <b>128</b>	5. 19 × 28 = <b>532</b>	6. 65 × 92 = <b>5980</b>

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

Clue 2: \_\_\_\_\_ The population of the island is less than ten thousand.

		77.7.2		-			
						<b>~</b>	
•	- <b>13:</b> ⊺	he Myste	ery of the Mi	ssing Piro	ate Treasure ((	ontinued	1)
lue 3				_			
		0 0			the afternoon?	-	
				tide to ch	ange from its l	owest leve	21
	5	level? (6	•	•			
		0 0	he tide at 7:0		•		
ly how	many	metres d	id the tide leve	el change l	petween 2:00 p	.m. and 8:	00 p.m.? <b>(2.8 me</b>
y how	many	metres di	d the tide leve	l change b	etween 8:00 p.	n. and 11	:00 p.m.? <b>(1.1 me</b>
	6 hour	's	1.7 met	res	1.2 metre	s (	1.1 metres
	the		is less th		60 miles		70 miles
	5 hour	s	3.4 met	res	2.8 metre	s	1.8 metres
	30 mile		island		is more the		away
		I					
ue 3: .			The islo	<u>ind is mo</u>	<u>re than 70 mil</u>	es away.	
lue 4	1.	2.6	1.84	1.8	1.805	2.06	
		1.8	1.805	1.84	2.06	2.6	
	2.	1.1	1.2	2.1	1.19	2.2	
		1.1	1.19	1.2	2.1	2.2	
	3.	5	$\frac{1}{2}$	5	$\frac{11}{24}$	$\frac{2}{3}$	
		Ũ	1				
		$\frac{11}{24}$	2	<u>5</u> 8	2 3	<u>5</u> 6	
	4.	56 235	56 181	56 824	65 455	56 881	
		56 181	56 235				
	5.	56.268			56 268		
		5.626	56.265	562.68	5626.8	56 268	
the	south-	west	located	in	treasure ca	Ves	the north-east
	2.06	VV COL	<u>5</u> 6	J	2.2		2.1
	island	·	the south-	-east	the north		the east
	2.6	· ·	$\frac{2}{3}$	-	56 881		5626.8
$\geq$	<b>a</b>		_	+b	the a second		the west
	are 65 45!	5	the sou <sup>.</sup> 1.84	tn	the north-w 56 268		<u>5</u> 8
							0
110 /11	Th	<u>ie island</u>	<u>'s treasure ca</u>	<u>ves are lo</u>	<u>cated in the n</u>	orth-west	•
iue 4.							



Page 14: Five Palms Hotel **Page 17:** Quick Write: Space Accept either example: Pupils' own responses. 1. Are you ready for some family fun in the sun? Page 18: Second World War Word Search ...why would you want to go heltrvday S t b е anywhere else? h l i b С k The author has used the rhetorical n question to get people to read further ρ m n t е S е α into the article to find the answer/ α Ч е v a d y to persuade people that this is the S best place to stay on holiday. S True False 2. Five Palms is an old hotel. 1. At the start of the Second World War, France The kids clubs run from 9am to 12pm. and Poland were Great Britain's **allies** . Satellite TV is included in all rooms. 2. Victory in Europe Day is 3. Accept reference to families otherwise known as **VE Day**. with children with appropriate justification from the text. **3. Rationing** was the limiting of food, clothing and petrol. 4. Accept any appropriate definition, 4. People turned their gardens into for example: best, excellent, top-quality, most **allotments** to grow their own vegetables. important, first-rate, superior. 5. Men between 18 and 41 years old Page 16: Spot Mr Whoops' Mistakes were **conscripted** to fight. 6. Children were **evacuated** from competition desperate cities to the countryside. marvellous amateur 7. Windston **Churchill** became environment equipment Prime Minister in 1940. communicate cemetery 8. People wear poppies on **Remembrance Day**. soldiers disastrous 9. One type of air raid shelter was aggressive lightning called an anderson shelter. excellent 10. The time of night when everyone had to cover their windows and doors was known as a **blackout**.

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Page 19-25: The Missing Emojis: SPaG Problem-Solving Mystery Game

### **Clue 1: Formal or Informal Footprints?**

Formal	Informal
profession	job
immediately	now
opportunity	chance
sufficient	enough
sacrifice	give up
injustice	
spectacles	

The culprit wore **smart shoes.** 

### **Clue 2: Silly Synonyms**

Poorly	Angry
peaky	irate
ailing	annoyed
unwell	furious

Confused	Нαрру
baffled	ecstatic
muddled	overjoyed
bewildered	gleeful
perplexed	jovial
puzzled	

The emoji with the most synonyms is **confused** so this must be the worker's favourite emoji.

# **Clue 3: Prefix Packets**

re-	dis-	over-
connect	connect	take
act	courage	act
appoint	appoint	sleep
do	agree	do
read		
take		

The prefix with the most words is **re**so the culprit's favourite snack is **chocolate**.

# Clue 4: Eye-Spy the Culprit!

immediate	stumach	lightnning	imediate	comittee	disasterous	queeu
foreign	sugest	lesiure	equipp	muscle	indevidual	desprate
restaurant	bargin	orkward	mischevious	sinsere	discionary	familliar
recommend	persuade	programme	determined	especially	hindrance	develope
curiousity	acording	sacrifise	concence	contraversy	forty	explaination
communicate	system	yacht	shoulder	rhythm	equipment	embarass
variety	recoggnise	suficient	rhime	signiture	convinience	bruize
neighbour	frequently	correspond	cemetery	relevant	nuisence	marvelous
vegtable	proffession	consious	twelth	prejudice	anscient	phisycal
achieve	equipt	vehical	acompany	immature	symbol	average
pronunsiation	exagerate	garantee	secretery	identtity	neccessary	parliament
privilige	temperature	critisize	langwage	apparent	availible	excellent
thorough		harass		community		оссиру
$\mathbf{X}$		r00		$\sim$		/ <del>0</del> -6

The culprit **wears** glasses.

## Clue 5: Terrible Texting

#### **Corrections (Accept any relevant** punctuation – semi-colon, colon, dash)

I'm sorry - it was me. the emojis were annoying me: it felt like they were taking over the world!

I thought people would appreciate a day without emojis; I know I did!

I have never done anything like this before; it was wrong of me.

There are 4 missing boundaries between independent clauses so the thief's house number is 4.

The culprit was Craig Cry.



