

Page 1: Pirate-Themed Mental

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Calculation	rate-Ineme ns Code Br	ea Mental Teaker			Answer	Letter
Answer	Letter	Answer	Letter	1400 ÷ 10 ²	14	р
121		7044	n	6 ²	36	l
642	h	872	0	0.121 × 10 ³	121	a
125	C	1/.	0 D	8140 - 1096	7044	n
0	ر ط	42	μ	72	49	k
0	u	42	ų	33	27	s
11	e r	27	1	8053 - 7932	121	a
11	J	21	5	6 ³	216	i
16	g	84	t	4×3^2	36	l
22	n	100	u			
216	۔ ۱		V	$\frac{7}{12}$ of 24	14	р
48	J	64	W	112	121	a
49	k	120	X	36 357 - 28 653	7704	r
36	l	66	у	6992 + 712	7704	r
603	m	144	Z	25 652 - 24 780	872	0
		Answer	letter	$\frac{7}{12}$ of 144	84	t
64 200 ÷	100	642	b	5184 - 5059	125	с
10 ²	100	100	u v	1.21×10^2	121	a
0.125 × 10	000	125	С	$\frac{2}{5}$ of 35	14	р
5 ³		125	С	0.084 × 1000	84	t
$\frac{11}{12}$ of 132		121	a	112	121	a
 15184 – 8	140	7044	n	21600 ÷ 100	216	i
$\frac{3}{7}$ of 28		12	е	7.044×10^{3}	7044	n
$\frac{2}{11}$ of 66		12	е			
4052 + 36	52	7704	r	53	125	С
		,]	102	100	u
				0.84 × 100	84	t
				6 ²	36	l
				100 of 1100	121	a
				3 ³	27	S
				$\frac{3}{8}$ of 72	27	s

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twink

$\frac{15}{25} = \frac{3}{5}$ Section 5 0.2kg = **200**g 1490q = **1.49**kg 1.2kg = **1200**g Section 6 88 boxes Section 7

 $\frac{8}{12} = \frac{2}{3}$

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**

Page 4: Pirate Flags (Continued) Flag 1: Area = **45cm**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 = **34cm²** 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.

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	✓	
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 = 648	2. 756 ÷ 9 = 84	3. 8.2 × 12 = 98.4
4. 1024 ÷ 8 = 128	5. 19 × 28 = 532	6. 65 × 92 = 5980

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.



			,,,	/			
	12.7				ato Trocours (C	ontinue	1)
age 9-1	LJ:	ne myste	ery of the Mis	ssing Pir	ute rreasure (Co	untinued	l)
l ue 3 (hat is t	ha h	aight of t	ha tida at 2.00	0 n m in	the afterness?	10	rac)
nut is t				o p.m. in		LT'O WEL	
w mar its hiq	ny ho hest	burs aid if level? (6	t take for the t hours)	tiae to cl	lunge from its lo	west leve	21
ıat is t	:he h	eight of t	he tide at 7:00	0 p.m.? ((3.4 metres)		
how n	nanu	ı metres di	id the tide leve	el change	between 2:00 p.r	n. and 8:	00 p.m.? (2.8 met
hown	anu	matracdi	d tha tida laval	lehango	hatwaan 8,00 n m	and 11	00 n m 2 (1 1 m et
	luny	metres ut		i chunge	between 8:00 p.m		:00 p.m.? (1.1 met
6	hou	rs	1.7 meti	res	1.2 metres		1.1 metres
	the		is less th	lan	60 miles		70 miles
5	hou انس ر	rs	3.4 meti	res	2.8 metres		1.8 metres
00	ווננ	.63	istund				uwuy
ıe 3: _			The islo	ind is m	ore than 70 mile	<u>s away.</u>	
ue 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	1	5	$\frac{11}{24}$	2	
	-	。 11	2 1	o 5	24	د 5	
		24	2	8	3	6	
	4.	56 235	56 181	56 82	4 65 455	56 881	
		56 181	56 235	56 82	4 56 881	65 455	
	5.	56.268	562.68	5.626	56 268	5626.8	
		5.626	56.265	562.6	8 5626.8	56 268	
the s	outh	-west	located	in	treasure cave	es	the north-east
	2.06		<u>5</u> 6		2.2		2.1
is	land	l's	the south-	east	the north		the east
	2.6		<u>2</u> 3		56 881		5626.8
	are		the sout	th	(the north-we	st	the west
6	5 45	5	1.84		56 268		<u>5</u> 8
110 /	T	he island	e tracuro co		ocated in the re-	rth_wast	
.c 4				ves ure l		<u> </u>	
burie	ed tre	easure car	ı be tound on:		Ring of Ro	cks Islar	าd



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Page 14: Five Palms Hotel Accept either example:

1. Are you ready for some family fun in the sun?

...why would you want to go anywhere else?

The author has used the rhetorical question to get people to read further into the article to find the answer/ to persuade people that this is the best place to stay on holiday.

2.		True	False
	Five Palms is an old hotel.		\checkmark
	The kids clubs run from 9am to 12pm.		\checkmark
	Satellite TV is included in all rooms.	\checkmark	

- 3. Accept reference to families with children with appropriate justification from the text.
- 4. Accept any appropriate definition, for example: best, excellent, top-quality, most important, first-rate, superior.

Page 16: Spot Mr Whoops' Mistakes

competition	desperate
marvellous	amateur
equipment	environment
communicate	cemetery
soldiers	disastrous
aggressive	lightning
excellent	

Page 17: Quick Write: Space Pupils' own responses.

Page 18: Second World War Word Search

S	h	е	l	t	r	v	d	a	y	t	þ	е	¥	е
a	n	d	е	r	S	0	n	S	h	е	+	t	+	+
r	е	m	b	r	h	l	i	b	l	С	a	k	đ	a
h	c	h	u	-r-	- c -	h	i	-[-[¢	р	a	ŧ
l	¢L	t	m	е	n	t	е	S	t	V	k	е	y	
a	_	_[-0-	t	m	е	n	t		t	6	V	a	6
y	ļ	m	b	е	r	е	V	а	d	y	щ	а	S	h
S		С	r	i	-e-		a	- C -	u	a	+	<u> </u>	_d_	
+	-	m	<u> </u>	m	b	r	-a -	n	- c -	<u> </u>	_d_	a	y	h
S	\$	k	e	0	n	5	С	r	i	р	t	е	d	9

- 1. At the start of the Second World War, France and Poland were Great Britain's **allies** .
- Victory in Europe Day is otherwise known as VE Day.
- **3. Rationing** was the limiting of food, clothing and petrol.
- People turned their gardens into allotments to grow their own vegetables.
- 5. Men between 18 and 41 years old were **conscripted** to fight.
- 6. Children were **evacuated** from cities to the countryside.
- 7. Windston **Churchill** became Prime Minister in 1940.
- 8. People wear poppies on **Remembrance Day**.
- 9. One type of air raid shelter was called an **anderson shelter** .
- The time of night when everyone had to cover their windows and doors was known as a **blackout**.



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		
	l J		

Confused	Нарру		
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		occupy
X		~~ 00 ~~		X		<u>~~</u> 00

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.



