

BR



Year 6

Independent Maths & English Work Booklet

Answers

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Page 1: Pirate-Themed Mental Calculations Code Breaker

Answer	Letter	Answer	Letter
121	a	7044	n
642	b	872	o
125	c	14	p
8	d	42	q
12	e	7704	r
11	f	27	s
16	g	84	t
22	h	100	u
216	i	27	v
48	j	64	w
49	k	120	x
36	l	66	y
603	m	144	z

	Answer	Letter
$64\,200 \div 100$	642	b
10^2	100	u
0.125×1000	125	c
5^3	125	c
$\frac{11}{12}$ of 132	121	a
$15184 - 8140$	7044	n
$\frac{3}{7}$ of 28	12	e
$\frac{2}{11}$ of 66	12	e
$4052 + 3652$	7704	r

	Answer	Letter
$1400 \div 10^2$	14	p
6^2	36	l
0.121×10^3	121	a
$8140 - 1096$	7044	n
7^2	49	k

3^3	27	s
$8053 - 7932$	121	a
6^3	216	i
4×3^2	36	l

$\frac{7}{12}$ of 24	14	p
11^2	121	a
$36\,357 - 28\,653$	7704	r
$6992 + 712$	7704	r
$25\,652 - 24\,780$	872	o
$\frac{7}{12}$ of 144	84	t

$5184 - 5059$	125	c
1.21×10^2	121	a
$\frac{2}{5}$ of 35	14	p
0.084×1000	84	t
11^2	121	a
$21600 \div 100$	216	i
7.044×10^3	7044	n

5^3	125	c
10^2	100	u
0.84×100	84	t
6^2	36	l
$\frac{11}{100}$ of 1100	121	a
3^3	27	s
$\frac{3}{8}$ of 72	27	s

Page 2: Pirate-Themed Mental Calculations Code Breaker (Continued)

p	a	r	o	t	f	g	h	i	j	k	l
m	n	p	q	r	s	t	u	v	w	x	
y	z	a	b	c	d	e	f	g	h	i	j
k	l	m	n	o	p	q	r	s	t	u	v
w	x	y	z	a	b	c	d	e	f	g	h
s	j	k	l	m	n	o	p	q	r	s	t
n	v	w	x	y	z	a	b	c	d	e	f
a	h	i	j	k	l	m	n	o	p	q	r
i	s	u	v	w	x	y	z	a	b	c	d
l	f	a	h	i	j	k	l	m	n	o	p
q	e	a	p	t	a	i	n	y	e	a	b
c	d	e	f	g	h	i	j	k	l	m	n

buccaneer	plank
sail	parrot
captain	cutlass

Page 3: Maths Activity Mat

Section 1

Smallest: 1 101 011
1 110 101
1 100 111
Largest: 1 010 011

Section 2

380

Section 3

0.4 x 100 = 40

0.9 x 100 = 90

0.7 x 100 = 70

Section 4

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

$$\frac{15}{25} = \frac{3}{5}$$

Section 5

0.2kg = 200g

1490g = 1.49kg

1.2kg = 1200g

Section 6

88 boxes

Section 7

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 = 34cm^2

Perimeter = 28cm

7204 + 89	6991 + 81	4526 + 69	5217 - 99	5517 - 41	8486 - 69	8539 - 91	9877 - 59	7900 - 61
7777 + 49	8526 - 61	3953 + 69	6968 + 39	4083 + 81	7278 + 99	8926 + 61	8412 + 91	9150 - 51
7826 + 69	6989 + 19	5095 + 39	7834 - 29	3993 + 79	8186 - 81	8414 - 69	2456 + 89	7412 + 81
7842 - 49	7517 + 51	8096 + 31	8278 - 39	4606 - 89	8512 - 71	6978 + 89	4012 - 71	7433 - 39
7077 + 69	8086 - 81	7522 + 71	8155 + 19	5122 + 29	7661 + 59	6994 + 49	2981 - 59	7940 - 51
7053 - 61	5486 + 69	5989 + 91	5294 + 19	4670 - 21	4525 + 19	7002 - 69	5475 + 31	7047 - 49
7007 - 81	5786 + 89	2414 + 99	3148 - 29	7991 - 49	4019 - 61	3296 + 79	5687 + 79	5621 + 41
5479 + 81	5733 + 69	3847 + 19	4001 - 59	8132 - 31	3011 - 63	2834 + 59	5555 + 81	7006 - 99
7018 - 21	5516 + 39	3656 + 21	3590 - 59	3586 - 81	4036 - 41	2594 + 61	6017 - 29	6712 - 41
5806 + 69	7044 - 49	1567 + 19	2084 - 49	2322 - 81	1568 + 61	1275 + 39	5496 + 11	7002 - 11

Page 5: Pirate-Themed Mental Calculations Mosaic

3997 + 60	4265 + 70	5488 + 60	6526 - 40	5587 - 70	7044 - 90	6071 + 80	4250 + 60	5217 + 70
5018 + 80	5444 + 90	5629 + 80	6143 - 70	6857 - 20	7033 - 80	5567 + 80	5625 + 10	4954 + 90
6146 + 80	6177 - 50	6271 - 60	6585 + 90	6927 - 60	5693 + 90	5782 + 30	5587 + 20	6748 - 40
4569 + 50	5534 - 70	2468 + 80	2956 - 70	4017 - 50	3541 + 60	2787 + 60	5413 + 20	4499 + 40
3963 + 70	2957 - 40	3016 - 50	5504 - 10	3078 + 80	5892 + 90	3520 + 40	2567 - 50	4755 + 60
4585 + 50	6971 - 50	2676 - 50	3455 - 80	3783 + 40	4037 - 90	2560 + 20	7526 - 80	4508 + 20
5206 + 20	8312 - 40	3453 + 70	2527 - 40	1999 + 60	2087 - 60	3953 + 40	7037 - 70	5408 + 90
3914 + 90	4567 + 70	6982 - 70	8501 - 90	7524 - 40	8516 - 30	8274 - 80	3990 + 20	5400 - 90
4657 + 30	8486 + 40	9945 + 20	9514 - 40	8921 + 70	9254 + 60	8878 + 80	9426 - 70	5514 - 20
8498 + 70	9466 + 60	9014 - 30	8889 - 80	9998 - 90	9754 + 80	9620 - 90	9927 - 60	9694 - 90

Extra Challenge:

$8513 - 30 = 8473$ is incorrect.

The answer should be 8483 .

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 + 0.8	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	4.3 + 3.1	12.5 - 9.4	16.5 - 4.6	2.9 + 1.1
4.2 + 1.4	1.7 + 2.5	14.3 - 2.5	2.3 + 8.4	6.3 + 4.2	11.8 - 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	4.2 + 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. $18 \times 36 = 648$	2. $756 \div 9 = 84$	3. $8.2 \times 12 = 98.4$
4. $1024 \div 8 = 128$	5. $19 \times 28 = 532$	6. $65 \times 92 = 5980$

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: _____ **The population of the island is less than ten thousand.**

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.

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

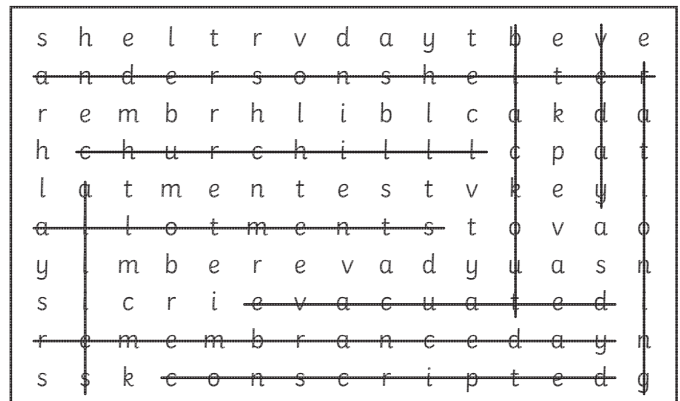
3. Accept reference to families with children with appropriate justification from the text.
4. Accept any appropriate definition, for example:
best, excellent, top-quality, most important, first-rate, superior.

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



1. At the start of the Second World War, France and Poland were Great Britain's **allies** .
2. Victory in Europe Day is otherwise known as **VE Day**.
3. **Rationing** was the limiting of food, clothing and petrol.
4. 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** .
10. 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

Confused	Happy
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	stomach	lightning	mediate	committee	disasterous	queue
foreign	suggest	leisure	equip	muscle	individual	desperate
restaurant	bargain	awkward	mischievous	sincere	discionary	familiar
recommend	persuade	programme	determined	especially	hindrance	develop
curiosity	according	sacrifice	conceal	controversy	forty	explanation
communicate	system	yacht	shoulder	rhythm	equipment	embarrass
variety	recognise	sufficient	rhyme	signature	convenience	bruise
neighbour	frequently	correspond	cemetery	relevant	nuisance	marvellous
vegetable	profession	conscious	twelfth	prejudice	ancient	physical
achieve	equip	vehical	acompany	immature	symbol	average
pronunciation	exaggerate	garantee	secretary	identity	necessary	parliament
privilege	temperature	critisize	language	apparent	available	excellent
thorough		harass		community		occupy

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.