Year 4
Independent Maths & English Work Booklet
Answers

1

Pirate Mental Multiplication and Division Code Breaker **Answers**

Use the code breaker to reveal the pirate themed words.

Find the words you reveal in the word search.

a	b	c	d	e	f	g	h	i	j	k	l	m
3	4	6	8	9	12	15	16	18	20	21	24	27

n	o	p	q	r	s	t	u	v	w	x	y	z
28	30	33	36	40	44	48	56	64	72	80	88	96

	Answer	Letter
32 ÷ 8	4	b
7 × 8	56	u
18 ÷ 3	6	c
24 ÷ 4	6	c
24 ÷ 8	3	a
7 × 4	28	n
27 ÷ 3	9	e
72 ÷ 8	9	e
5 × 8	40	r

	Answer	Letter
11 × 3	33	p
8 × 3	24	l
12 ÷ 4	3	a
7 × 4	28	n
7 × 3	21	k

	Answer	Letter
11 × 4	44	s
24 ÷ 8	3	a
6 × 3	18	i
6 × 4	24	l

	Answer	Letter
11 × 3	33	p
9 ÷ 3	3	a
10 × 4	40	r
8 × 5	40	r
10 × 3	30	o
12 × 4	48	t

	Answer	Letter
48 ÷ 8	6	c
9 ÷ 3	3	a
11 × 3	33	p
12 × 4	48	t
24 ÷ 8	3	a
6 × 3	18	i
7 × 4	28	n

	Answer	Letter
18 ÷ 3	6	c
7 × 8	56	u
6 × 8	48	t
6 × 4	24	l
12 ÷ 4	3	a
11 × 4	44	s
11 × 4	44	s

Pirate-Themed Mental Calculations Code Breaker **Answers**

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

Year 4 Maths Activity Mat **Answers**

Section 1
Order these numbers from smallest to largest:
6788   8677   7866   8766

6788	7866	8677	8766

Section 2
Fill in the missing numbers on this number line:

-4	-2	0	2	4	6	8

Section 3
Convert these times to 24-hour clock times:

a) 1:34 p.m. = **13:34**

b) 10:43 p.m. = **22:43**

c) 4:22 p.m. = **16:22**

d) 9:12 p.m. = **21:12**

Section 4
A postman drives 42 miles a day. How many miles will he drive in 5 days to the nearest 10 miles? What about the nearest 100 miles?

nearest 10 miles = **210 miles**

nearest 100 miles = **200 miles**

Section 5
Fill in the missing number:

$$\begin{array}{cccc} & 7 & 16 & 1 \\ & \cancel{8} & \cancel{7} & 1 \\ - & 1 & 9 & 9 \\ \hline & 6 & 7 & 2 \end{array}$$

Section 6
Milly has a piece of ribbon 75cm long. She cuts it into 3 equal pieces. How long is each piece?

25cm

Section 7
Asha bought a bag priced at £10.25 and a hair brush for £2.50. How much did she spend altogether?

£12.75

Section 8
Write the decimals which match the fractions:

	Decimal
$\frac{1}{10}$	**0.1**
$\frac{3}{4}$	**0.75**

Pirate Themed Mental Calculations Mosaic **Answers**

Solve the calculations to reveal the hidden picture. Each answer has a special colour.

Black = 100 - 249	Orange = 250 - 399	Grey = 400 - 549	Yellow = 550 - 699	Blue = 700 - 849	Green = 850 - 999

720 + 80	659 + 80	452 + 60	621 - 90	551 - 40	888 - 60	909 - 90	987 - 50	900 - 60
777 + 40	892 - 60	395 + 20	666 + 60	408 + 80	627 + 90	792 + 60	812 + 90	915 - 50
782 + 60	689 + 80	509 + 30	783 - 60	399 + 60	818 - 80	914 - 90	245 + 60	741 + 80
784 - 40	751 + 50	809 + 30	879 - 30	606 - 80	852 - 70	678 + 90	412 - 70	743 - 30
707 + 70	808 - 80	752 + 70	815 + 10	512 + 20	766 + 50	694 + 40	298 + 30	794 - 50
725 - 60	548 + 60	589 + 90	529 + 20	460 - 60	452 + 90	717 - 70	527 + 80	747 - 60
707 - 80	478 + 80	214 + 60	314 - 30	299 - 20	415 - 60	324 + 20	487 + 70	521 + 60
479 + 80	573 + 80	384 + 10	401 - 20	222 + 60	333 + 60	234 + 50	555 + 80	788 - 90
718 - 20	551 + 30	345 + 20	369 - 50	344 - 80	409 - 40	244 + 60	607 - 30	712 - 40
506 + 60	706 - 60	156 + 20	208 - 40	322 - 80	156 + 60	127 + 60	549 + 10	702 - 10

Extra Challenge: Use the inverse operation to write a related fact for each calculation.

548 + 60 = 608   **608 - 60 = 548 or 608 - 548 = 60**

788 - 90 = 698   **698 + 90 = 788 or 90 + 698 = 788**

The Mystery of the Pirate Captain Maths Mystery Game **Answers**

Clue 1

Order each set of numbers from smallest to largest. Take the largest number in each set and colour it in on the table below. Rearrange these words to find the first clue.

1. 502   250   255   550   205

205	**250**	**255**	**502**	**550**

2. 2161   2612   1261   6210   1623

1261	**1623**	**2161**	**2612**	**6210**

3. 8   8.3   8.4   8.6   8.2

8	**8.2**	**8.3**	**8.4**	**8.6**

4. 12.53   12.23   12.05   12.35   12.03

12.03	**12.05**	**12.23**	**12.35**	**12.53**

5. 67.84   68.74   67.48   68.47   64.87

64.87	**67.48**	**67.84**	**68.47**	**68.74**

8.46 monkey	**6210** the	**68.47** short	**12.35** hair
550 captain	**12.53** male	**8.46** rat	**12.23** male
502 female	**8.6** isn't	**68.74** new	**67.84** long

Clue 1: _____ **The new captain isn't male.** _____

The Mystery of the Pirate Captain **Answers**

Clue 2

Check these 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 new captain has long hair.

If there are more crosses than ticks, the new captain has short hair.

	Right ✓	Wrong ✗
6 × 9 > 7 × 8		✗
125 + 42 = 200 - 33	✓	
25 ÷ 10 = 2.05		✗
7 × 3 × 4 = 84	✓	
$\frac{1}{4}$ = 0.4		✗
2 hours = 150 minutes		✗
$\frac{1}{2}$ of 30 = $\frac{1}{4}$ of 60	✓	
$\frac{2}{5}$ of 60 = 24	✓	
1926 + 100 = 2126		✗
Total	**4**	**5**

Clue 2: _____ **The new captain has short hair.** _____

The Mystery of the Pirate Captain **Answers**

Clue 3

Use your knowledge of inverse operations to find the missing number in each triangle. Colour the answers in on the table and rearrange these words to find the third clue.
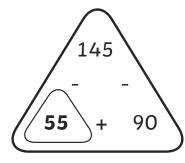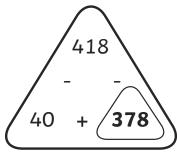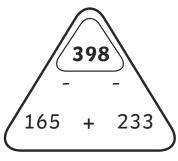
Triangle 1: 15 ÷ **3** × 5

Triangle 2: 84 ÷ 7 × **12**

Triangle 3: 56 ÷ **7** × 8

Triangle 4: 63 ÷ 7 × **9**

Triangle 5: **48** ÷ 6 × 8

Triangle 6: 145 − **55** + 90

Triangle 7: 418 − 40 + **378**

Triangle 8: **398** − 165 + 233

3 the	74 short	388 long	54 hair
12 eyepatch	7 new	398 not	55 wear
26 pet	9 does	48 captain	378 an

Clue 3: _____ **The new captain does not wear an eyepatch.** _____

The Mystery of the Pirate Captain **Answers**

Clue 4

Read the 24-hour digital times and match them to the times written in the table. Rearrange the words to find the fourth clue.

`21:30`

`16:10` `18:40` `17:50`

`13:15` `20:08` `15:20`

has	rat	new	the
Twenty minutes past three in the afternoon	**Eight minutes past eight in the evening**	**Ten minutes past four in the afternoon**	**Quarter past one in the afternoon**
monkey	parrot	captain	short
Half past ten in the evening	Quarter past two in the afternoon	**Half past nine in the evening**	Eight minutes past seven in the evening
long	a	hair	pet
Twenty minutes to nine in the evening	**Twenty minutes to seven in the evening**	Ten minutes to seven in the evening	**Ten minutes to six in the evening**

Clue 4: __**The new captain has a pet rat.**__

The new captain will be: __**Silver Penny**__

Non-Fiction - Tornado Rips Through Town **Answers**

1. How many people live in Greensburg?
   Less than 2000

2. The Greensburg tornado had windspeeds of up to how many mph?
   266 mph

3. Using the report, explain what 'tornado alley' is:
   'Tornado Alley' is the worst-affected area in America for tornados. 'Tornado Alley' is a region in the American Midwest and South worst-affected by tornados.

4. What do you think the people in the neighbouring towns thought about the disaster?
   Award one mark for answers that reflect the people in the neighbouring towns feeling horrified, upset or saddened for the people of Greensburg and their need to want to help.
   Award one further mark for answers that recognise they might also be relieved/grateful it didn't happen to them in their town.

SPaG Mat **Answers**

a

Add the correct pronouns to the sentence:

Rita heard a grunting noise from inside the cave, which made **her** shudder. There was definitely something inside **it**.
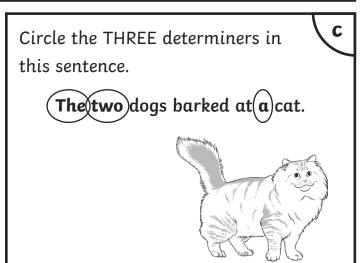
Now write another sentence to carry on the story with an example of a different pronoun. Circle the pronoun you have used.

b

Look at the choices of words within the brackets. Circle the correct word to fit the sentence:

(They/**There**) was a sudden rainstorm so the children ran inside for (**their**/ there) coats. They decided that they might need umbrellas (two/to/**too**).

c

Circle the THREE determiners in this sentence.

The **two** dogs barked at **a** cat.

d

Mr Whoops has accidentally jumbled two adjectives that he uses to describe his favourite teacher. Can you help him to unjumble them?

rgican   yldreifn

caring   **friendly**
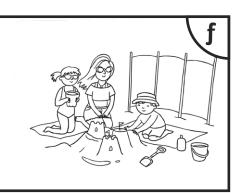
e

Change these adjectives into adverbs.

sleepy - **sleepily**

messy - **messily**

simple - **simply**

f

Re-arrange this sentence so that it has a fronted adverbial. Don't forget the correct punctuation.

The children made a gigantic sandcastle with much enthusiasm. **With much enthusiasm, the children made a gigantic sandcastle.**

Spot Mr Whoops' Mistakes **Answers**

Activity 2

occasionally	natural	eight
interest	therefore	heard
recent	enough	surprise
actually	notice	Earth

Fix the Sentence **Answers**

1. "Watch what happens next, announced the sensasional magicion excitedly".
   "Watch what happens next," announced the sensational magician excitedly.

2. the Countries flag boasts blue white and red stripes.
   The country's flag boasts blue, white and red stripes.

3. i sumtimes play basketbawl with my neybour becos he were a amazing player.
   I sometimes play basketball with my neighbour because he is an amazing player.

The Mystery of the Stolen Space Food **Answers**

Clue 1 - It's a Mystery!

A spacesuit   **An** alien

An astronaut   **An** eclipse

A planet   **A** comet

A rocket   **A** star

An asteroid   **A** helmet

I used **a** / an most frequently so the culprit is **male.**

Clue 2 - Is It Perfect?

Sentence	✓ or x
The astronauts have prepared for this mission for months.	✓
"I have waited for this chance for years," said one of the astronauts.	✓
Unfortunately, the space food has disappeared from the storage cupboard.	✓
Mission control is delayed the takeoff.	x
Tom Planets has eaten all of the space food.	✓
Luckily, the Space Agency will stored extra food in a safe place.	x
Finally, the spare food has been packed into the rocket.	✓
The rocket has took off safely.	x

There were **3** crosses and **5** ticks. There were more **ticks** so the culprit **does wear** glasses.

Clue 3 - Comma Confusion

Space sentence	✓ or x
Wearing his orange uniform Mercury prepared for his first space mission.	x
As fast as a rocket, the silver meteor zoomed into the Earth's atmosphere.	✓
Stranded on the moon Helene, noticed the sky was turning navy blue.	x
Magnified through, the telescope the craters on the red planet looked enormous.	x
Putting on her purple uniform, for the first time Carina felt more proud than she ever had before.	x

The colour mentioned in the correctly punctuated sentence is **silver** so the culprit's uniform is **silver**.

Clue 4 - Lost in a Word Vortex...

answer	business	century	busy	dissapear	calender	breethe
adress	ocassion	forwords	favourite	weight	centre	experement
bycycle	acidentally	eigth	corght	exersise	circle	Febuary
nowledge	deside	certin	groop	famouse	continue	different
speshul	strate	grammer	hieght	beleive	naturel	early
potatos	women	although	popular	guide	accident	question
enuff	ordinary	exstreme	arive	gard	medisine	dificult
compleet	regular	history	build	important	discribe	ocasionaly
notis	hurd	increese	hart	learn	imagine	intrest
promis	offten	supos	raign	probally	actually	posession
peculliar	library	material	experience	particular	length	variouse
naughty	remember	sentance	posishun	pirhaps	thru	oposite
island	seperate	minute	surprize	though	posess	possible

British   **Russian**   **American**   **Chinese**

The culprit's nationality is **British.**

Clue 5 - To Apostrophe or Not to Apostrophe?

Space sentence	✓ or x
As I was entering the space shuttle, I tripped over the captain's boots.	✓
Space walks are fun but it is important to check your helmets seal's before leaving the space station.	x
The planets's rocks will be studied while we are there.	x
Seeing the aliens' vehicles approaching made us all panic.	✓
The astronauts are always happy to see their families' faces when they make video calls back home once a week.	✓

There were **2** crosses and **3** ticks. There were more **ticks** so the culprit is **less than** 30 years old.

The space food thief was Rocket.