## Understanding, interpreting and responding to texts

- What happens to the pirates who were attacking the inn, once Jim and his mother escape? (They are dealt with by local militia, sent out by Squire Trelawney).

- Why does Jim seek refuge with the Squire? (The Squire of a village would own much of the land, and would therefore be rich and powerful).

- Why does the Squire decide to go on a voyage? (He wants to find the treasure shown on the map).

- What happened to the blind beggar whose visit to Billy Bones had led to the old Captain's death? (He is run down by the Squire's horses, probably when the militia were sent to deal with the pirates attacking the inn).

- For what reason is Dr Livesey afraid of the Squire? (He is afraid that the Squire will not be able to keep the reason for their voyage secret, because he tends to talk 'too much').

- Do you think Dr Livesey is right to be concerned about the Squire? (To be discussed - but the Squire seems reckless and to like drinking brandy, which suggests that he might be).

- Why does the reason for their voyage need to be kept secret? (Because if it becomes widely known the pirates who were pursuing Billy Bones will likely pursue the Squire and his crew).
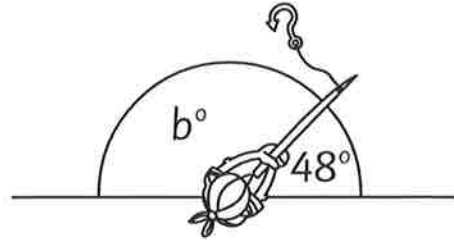
Name: _____   Class: _____

Sten and Stig are having a competition to see who can win the hidden treasure.
Help them work out the missing angles.
The first one to finish wins the treasure!
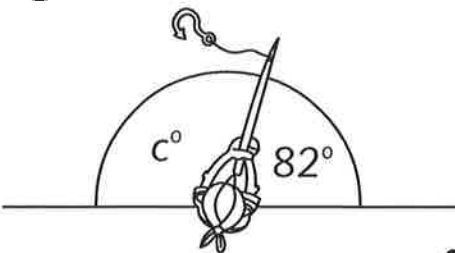
1 Here is Sten's first turn.

152°
$a°$
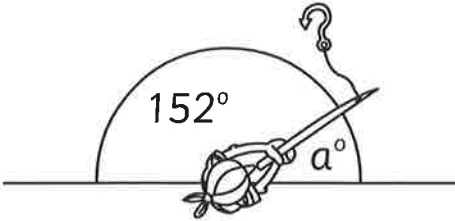
$a =$ ___28___ °

2 Now it's Stig's turn.

$b°$
48°

$b =$ ___132___ °

3 Sten's second turn.

$c°$ 82°

$c =$ ___98___ °

4 Stig's next turn.

164°
$d°$
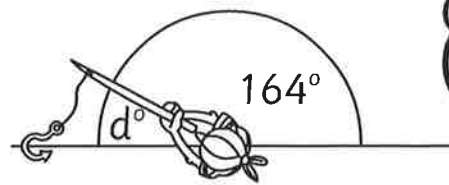
$d =$ ___16___ °

3 Sten's final turn.

121° $e°$
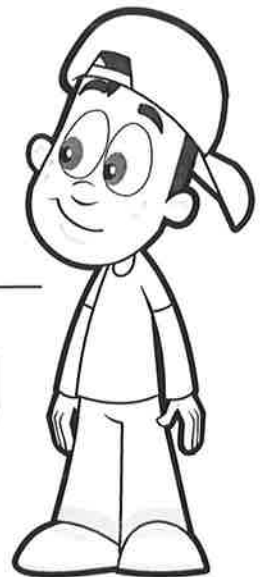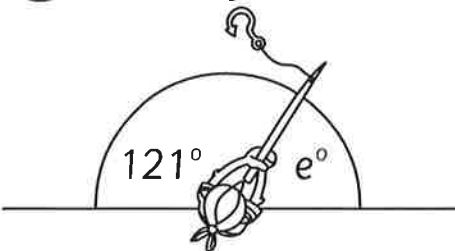
$e =$ ___59___ °

4 Stig's last turn.

$f°$
31°
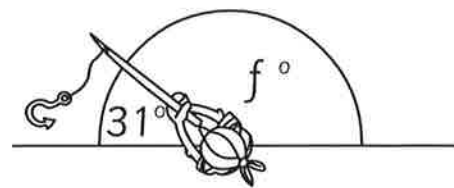
$f =$ ___149___ °

Who has won the treasure? **Suggested answers** cores below.

ⓐ Sten scored ___3___   **ⓑ** Stig scored ___2___

Who won? Draw the winner with the treasure he found on the back of this sheet.

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Name: _____   Class: _____

Calculate angles a, b, c and d.
Remember there are 180 degrees in a straight line!

1

70°   a°

a = _____ **110°** _____

2

150°

b°

b = _____ **30°** _____

3

c°

110°

c = _____ **70°** _____

4

d°

125°

d = _____ **55°** _____

Remember there are 360 degrees in a circle!

(a) If 225° in a circle are shaded, how many degrees are unshaded?

_____ **135** _____ °

(b) If 43° in a circle are unshaded, how many degrees are shaded?

_____ **317** _____ °

(c) To make a special hat, Sten cut 20° out of a circle.
How many degrees were left in his circle?

_____ **340** _____ °

Wheels x 4	**1440°**	
Steering wheel	360°	
Heater control	360°	
Headlights x 2	720°	
Suggested Answers	2880°	

Pirate-Themed Mental Calculations 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
121	6	4816	7	9	11	16	2	25	48	49	36	64

n	o	p	q	r	s	t	u	v	w	x	y	z
635	72	4	70	77	81	1827	100	99	108	120	144	150

	Answer	Letter
600 ÷ 100	6	b
10^2	100	u
2641 + 2175	4816	c
48 160 ÷ 10	4816	c
1.21 × 100	121	a
63 500 ÷ 100	635	n
$\frac{1}{7}$ of 63	9	e
0.009 × 1000	9	e
0.77 × 100	77	r

	Answer	Letter
2^2	4	p
0.36 × 100	36	l
121 000 ÷ 1000	121	a
2175 - 1540	635	n
7^2	49	k

	Answer	Letter
9^2	81	s
11^2	121	a
0.25 × 100	25	i
360 ÷ 10	36	l

	Answer	Letter
2^2	4	p
11^2	121	a
7.7 × 10	77	r
770 ÷ 10	77	r
720 ÷ 10	72	o
18.27 × 100	1827	t

	Answer	Letter
4.816 × 1000	4816	c
817 - 696	121	a
$\frac{1}{12}$ of 48	4	p
182.7 × 10	1827	t
12 100 ÷ 100	121	a
5^2	25	i
6.35 × 10^2	635	n

	Answer	Letter
10 000 - 5184	4816	c
4816 - 4716	100	u
182.7 × 10	1827	t
6^2	36	l
1.21 × 10^2	121	a
9^2	81	s
8.1 × 10	81	s

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

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

buccaneer	sail	captain
plank	parrot	cutlass

Pirate-Themed Mental Calculations Mosaic **Answers**

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

Red = 1000-2499	Skin colour of your choice = 2500-3999	Blue = 4000-5499	Black = 5500-6999	Brown = 7000-8499	Purple = 8500-9999

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 + 60	4508 + 20
5206 + 20	8512 - 40	3453 + 70	2527 - 40	1999 + 60	2087 - 60	3953 + 40	7037 + 70	5408 + 90
3914 + 90	4567 + 70	6982 + 20	8501 - 50	7524 + 40	8516 - 30	8274 + 80	3990 + 20	5400 - 90
4657 + 30	8486 + 40	9945 + 20	9514 - 40	8921 + 70	9254 + 60	8873 + 80	9426 - 70	5514 - 20
8498 + 70	9466 + 60	9014 - 30	8889 + 80	9998 - 90	9754 + 80	9620 - 90	9927 - 60	9694 + 90

Choice of skin tone will vary

Extra Challenge: Which of the following calculations is incorrect? Explain your reason.

4584 + 50 = 4634   8513 - 30 = 8473   4499 + 40 = 4539

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

Pirate-Themed Mental Calculations Mosaic **Answers**

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

Black =	Brown =	Grey =	Yellow =	Blue =	Green =
1000-2499	2500-3999	4000-5499	5500-6999	7000-8499	8500-9999

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	2983 + 39	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	2991 - 49	4015 - 61	3246 + 29	5687 + 79	5621 + 41
5479 + 81	5733 + 69	3847 + 19	4001 - 59	2722 + 31	3033 + 61	2834 + 59	5555 + 81	7006 - 99
7018 - 21	5516 + 39	3456 + 21	3690 - 59	3544 - 81	4036 - 41	2544 + 61	6017 - 29	6712 - 41
5806 + 69	7044 - 49	1567 + 19	2084 - 49	2322 - 81	1568 + 61	1275 + 39	5496 + 11	7002 - 11

Extra Challenge: Are these statements true or false?

2117 + 59 > 2223 - 89 **True, 2176 is greater than 2134**

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

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Pirate-Themed Mental Calculations Mosaic **Answers**

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

Black=	White =	Blue =	Yellow =	Green =	Red =	Purple =
0-2.0	2.1-4.0	4.1-6.0	6.1-8.0	8.1-10.0	10.1-12.0	12.1-16.0

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: Which calculation is the odd one out? Explain your reason.

14.8 + 0.9 = 15.7   9.2 – 2.5 = 6.7   2.3 + 6.4 = 8.7   12.1 – 1.3 = 10.8

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.

MASTERS CHALLENGE 2 x 2 = 4	24 ÷ 6= 4	10 x 9 = 90
8 x 7 =56	44 ÷ 4 = 11	8 x 12 =96
3 x 3 = 9	3 x 4 = 12	8 x 8 = 64
5 x 4 = 20	4 x 4 = 16	54 ÷ 9 = 6
1 x 1 = 1	5 x 3 = 15	40 ÷ 8 = 5
48 ÷ 6 =8	3 x 8 = 24	6 x 3 = 18
28 ÷ 4 =7	60 ÷ 12 =5	6 x 12 =72
3 x 6 = 18	36 ÷ 3 = 12	3 x 6 = 18
4 x 7 = 28	4 x 11 =44	4 x 12 =48
4 x 5 = 20	3 x 5 = 15	9 x 5 = 45
9 x 7 =63	9 x 11 =99	9 x 12 =108
42 ÷ 7 =6	4 x 8 = 32	8 x 9 = 72
45 ÷ 5 =9	12 x 11 = 132	12 x 12 =144
5 x 6 = 30	9 ÷ 1 = 9	10 ÷ 5 = 2
3 x 7 = 21	10 x 3 = 30	6 x 6 = 36
2 x 9 =18	9 x 9 = 81	90 ÷ 10 = 9
36 ÷ 9 = 4	8 x 3 = 24	10 x 10 = 100
121 ÷ 11 = 11	72 ÷ 9 = 8	10 x 3 = 30
1 x 7 = 7	66 ÷ 6 = 11	48 ÷ 4 = 12
8 x 4 = 32	1 x 10 =10	54 ÷ 6 = 9
99 ÷ 9= 11	6 x 5 = 30	108 ÷ 9 = 12
5 x 7 = 35	5 x 11 =55	5 x 12 = 60
9 x 2 = 18	2 x 8 = 16	8 x 10 = 80
7 x 7 =49	7 x 11 = 77	7 x 12 =84
11 x 7 =77	11 x 11 = 121	11 x 12 = 132
6 x 10 = 60	63 ÷ 7 = 9	3 x 9 = 27
3 x 7 = 21	3 x 11 = 33	3 x 12 = 36
8 x 5 = 40	4 x 10 = 40	18 ÷ 2 = 9
2 x 11 = 22	6 x 9 = 54	10 x 10 = 100
8 x 7 = 56	60 ÷ 5 = 12	12 ÷ 1 = 12
4 x 7 = 28	84 ÷ 7 = 12	9 x 7 = 63

88 ÷ 8=11	10 x 11 = 110	72 ÷ 6 = 12
10 x 7 = 70	10 x 11 = 110	10 x 12 = 120
3 x 12 = 36	120 ÷ 12 = 10	36 ÷ 3 = 12

Master Master Challenge

72 ÷ 8 = 9	6 ÷ 1 = 6	56 ÷ 7 = 8	18 ÷ 2 = 9
64 ÷ 8 = 8	18 ÷ 3 = 6	24 ÷ 3 = 8	40 ÷ 8 = 5
28 ÷ 7 = 44	30 ÷ 6 = 5	8 ÷ 8 = 1	56 ÷ 7 = 8
9 ÷ 9 = 1	32 ÷ 8 = 4	12 ÷ 4 = 3	24 ÷ 6 = 4
54 ÷ 9 = 6	12 ÷ 4 = 3	35 ÷ 7 = 5	12 ÷ 2 = 6
40 ÷ 8 = 5	18 ÷ 6 = 3	15 ÷ 3 = 3	9 ÷ 1 = 9
1 ÷ 1 = 1	16 ÷ 8 = 2	56 ÷ 8 = 7	35 ÷ 7 = 5
63 ÷ 9 = 7	2 ÷ 2 = 1	36 ÷ 4 = 9	42 ÷ 6 = 7
27 ÷ 9 = 3	36 ÷ 4 = 9	9 ÷ 1 =9	15 ÷ 5 = 3
16 ÷ 2 = 8	54 ÷ 6 = 9	12 ÷ 6 = 2	6 ÷ 1 = 6
7 ÷ 1 = 7	72 ÷ 9 =8	36 ÷ 9 = 4	9 ÷ 9 = 1
12 ÷ 3 = 4	14 ÷ 2 = 7	30 ÷ 5 = 6	24 ÷ 6 = 4
27 ÷ 3 = 9	24 ÷ 4 = 6	6 ÷ 1 = 6	45 ÷ 5 = 9
10 ÷ 2 = 5	30 ÷ 6 = 5	48 ÷ 6 = 8	8 ÷ 4 = 2
16 ÷ 4 = 4	45 ÷ 9 = 9	2 ÷ 2 = 1	7 ÷ 1 = 7
3 ÷ 3 = 1	16 ÷ 4 = 4	21 ÷ 7 = 3	9 ÷ 9 = 1
18 ÷ 3 = 6	21 ÷ 7 = 3	9 ÷ 3 = 3	30 ÷ 5 = 6
40 ÷ 5 = 8	81 ÷ 9 = 9	30 ÷ 6 = 5	32 ÷ 4 = 8
32 ÷ 4 = 8	16 ÷ 2 = 8	14 ÷ 2 = 7	12 ÷ 3 = 4
24 ÷ 4 = 6	35 ÷ 5 = 7	56 ÷ 8 = 7	63 ÷ 9 = 7
45 ÷ 5 = 9	49 ÷ 7 = 7	36 ÷ 4 =9	24 ÷ 8 = 3
40 ÷ 5 = 8	54 ÷ 9 = 6	18 ÷ 9 = 2	25 ÷ 5 = 5
20 ÷ 4 = 5	15 ÷ 3 = 5	20 ÷ 5 = 4	32 ÷ 4 = 8
48 ÷ 6 = 8	20 ÷ 5 = 4	24 ÷ 8 = 3	36 ÷ 9 = 4
54 ÷ 6 = 9	28 ÷ 7 = 4	24 ÷ 4 = 6	48 ÷ 8 = 6