

SIMMERING BRONZE

Section 1

Gina and Milly equally shared out a bagful of cherries. There was one left over. Both girls had 12 cherries.

How many cherries would have been in the bag?

Section 2

Fill in the missing boxes:

$$\square + 15 = 30$$

$$60 - \square = 34$$

Section 3

Complete these statements:

$\frac{1}{2}$ of 20 is

$\frac{1}{4}$ of 20 is

$\frac{3}{4}$ of 20 is

Section 4

How many 10ps would you need to make £2?



Section 5

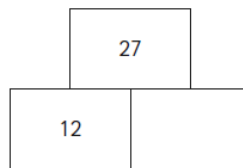
Which times table are these numbers from?

5 20 15 35 40 55

Section 7

Addition Pyramid

Tip: The bottom numbers add together to make the top number.



Section 8

How many minutes are there in 2 hours?

How many minutes are there in $1\frac{1}{2}$ hours?

Show your working out.

Section 6

If I count 12 pairs of socks, how many socks are there altogether?

SIMMERING SILVER

Section 1

Draw a number line starting at 385g and count on 90g. What's the answer?

Section 2

Calculate the following in your head:

$$268 + 7 = \square$$

$$187 + 4 = \square$$

$$653 + 9 = \square$$

Section 3

Calculate:

$$232 \times 10 =$$

Section 4

A farmer has 276 sheep. 139 lambs are born in the spring. How many sheep are there now on the farm?

Section 5

Write the following numbers in digits in order from smallest to largest:

621

216

162

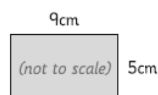
226

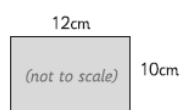
166

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Section 6

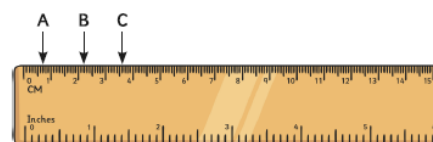
Calculate the perimeter of these rectangles:





Section 7

What measurements are the arrows pointing to? Record the measurement to the nearest millimetre.



A =

B =

C =

Section 8

Here is a table showing the number of boys and girls in each year group:

	3A	3B	3C	Total
Boys	15	18	13	
Girls		12	15	42
Total	30		28	

Complete the table.

SIMMERING GOLD

Section 1

What is the value of the bold number?

$3782 = \boxed{\quad}$

$21 \mathbf{301} = \boxed{\quad}$

Section 2

Fill the missing digits in:

$58\ 237 = 50\ 000 + \boxed{\quad} + 200 + 30 + \boxed{\quad}$

$63\ 120 = 60\ 000 + \boxed{\quad} + \boxed{\quad} + 20 + 0$

Section 6

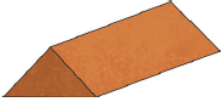
Round each decimal to the nearest whole number:

$9.84 = \boxed{\quad}$

$7.65 = \boxed{\quad}$

Section 3

Is there a difference between the number of vertices and faces that this shape has? Explain your answer.



.....

.....

.....

Section 4

Show your working out to calculate:

29×4

Section 7

Write these decimal numbers as a fraction:

$0.31 = \boxed{\quad} \quad 0.52 = \boxed{\quad}$

$0.63 = \boxed{\quad} \quad 0.48 = \boxed{\quad}$

Section 5

Complete the fraction sequence:

$\frac{1}{3}$	$\frac{2}{3}$	1	$1\frac{1}{3}$					
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Section 8

How many right angles are there in one complete turn? Draw a diagram to show this.

SIMMERING PLATINUM

Section 1

Write these Roman Numerals as numbers:

$CCIX \rightarrow \boxed{\quad}$

$DCLXXVII \rightarrow \boxed{\quad}$

Section 2

Write all the square numbers from 1×1 to 12×12 .

Section 3

Use a formal written method to work out these calculations:

216×14

$954 \div 6$

Section 4

Calculate:

$\frac{2}{3} + \frac{1}{6} =$

$\frac{7}{10} - \frac{3}{5} =$

Section 6

A plastic box weighs 25g and six cricket balls weigh 300g. How much do three plastic boxes, each with six cricket balls, weigh in kilograms?

Section 8

Here is a bus timetable:

Jordanthorpe	07:19	07:31	07:43
Nether Edge	07:48	08:00	08:12
Sheffield	08:06	08:18	08:30
Pitsmoor	08:20	08:32	08:44
Shiregreen	08:40	08:52	09:04

Do all the buses take the same time for each journey from Jordanthorpe to Shiregreen?

Jan needs to arrive in Sheffield by quarter past eight. Which bus should he catch from Nether Edge?

Section 5

Draw lines to match the following:

$\frac{53}{100}$ 13%

$\frac{13}{100}$ 53%

$\frac{79}{100}$ 79%

Section 7

Write acute, obtuse or reflex underneath each angle:



.....

.....

.....

ANSWERS SIMMERING BRONZE

Section 1

Gina and Milly equally shared out a bagful of cherries. There was one left over. Both girls had 12 cherries.

How many cherries would have been in the bag?

25

Section 2

Fill in the missing boxes:

$$\boxed{15} + 15 = 30$$

$$60 - \boxed{26} = 34$$

Section 3

Complete these statements:

$$\frac{1}{2} \text{ of } 20 \text{ is } \dots \boxed{10}$$

$$\frac{1}{4} \text{ of } 20 \text{ is } \dots \boxed{5}$$

$$\frac{3}{4} \text{ of } 20 \text{ is } \dots \boxed{15}$$

Section 4

How many 10ps would you need to make £2?



20

Section 5

Which times table are these numbers from?

5 20 15 35 40 55

5x table

Section 6

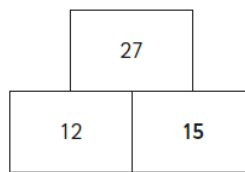
If I count 12 pairs of socks, how many socks are there altogether?

24

Section 7

Addition Pyramid

Tip: The bottom numbers add together to make the top number.



Section 8

How many minutes are there in 2 hours?

120

How many minutes are there in $1\frac{1}{2}$ hours?

90

Show your working out.

ANSWERS SIMMERING SILVER

Section 1

Draw a number line starting at 385g and count on 90g. What's the answer?

475g

Section 2

Calculate the following in your head:

$$268 + 7 = \boxed{275}$$

$$187 + 4 = \boxed{191}$$

$$653 + 9 = \boxed{662}$$

Section 3

Calculate:

$$232 \times 10 = \boxed{2320}$$

Section 4

A farmer has 276 sheep. 139 lambs are born in the spring. How many sheep are there now on the farm?

415

Section 5

Write the following numbers in digits in order from smallest to largest:

621

216

162

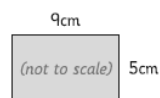
226

166

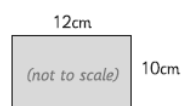
162 166 216 226 621

Section 6

Calculate the perimeter of these rectangles:



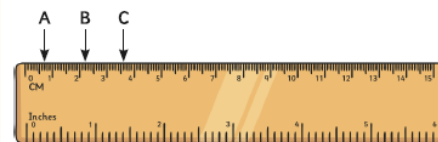
28cm



44cm

Section 7

What measurements are the arrows pointing to? Record the measurement to the nearest millimetre.



A = **7mm**

B = **22mm**

C = **36mm**

Section 8

Here is a table showing the number of boys and girls in each year group:

	3A	3B	3C	Total
Boys	15	18	13	46
Girls	15	12	15	42
Total	30	30	28	88

Complete the table.

ANSWERS SIMMERING GOLD

Section 1

What is the value of the bold number?

$$3782 = \boxed{700}$$

$$21\mathbf{3}01 = \boxed{300}$$

Section 2

Fill the missing digits in:

$$58\ 237 = 50\ 000 + \boxed{8000} + 200 + 30 + \boxed{7}$$

$$63\ 120 = 60\ 000 + \boxed{3000} + \boxed{100} + 20 + 0$$

Section 6

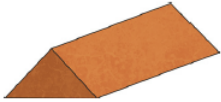
Round each decimal to the nearest whole number:

$$9.84 = \boxed{10}$$

$$7.65 = \boxed{8}$$

Section 3

Is there a difference between the number of vertices and faces that this shape has? Explain your answer.



Yes difference of 1

Section 4

Show your working out to calculate:

$$29 \times 4 = 116$$

Section 7

Write these decimal numbers as a fraction:

$$0.31 = \frac{31}{100} \quad 0.52 = \frac{52}{100}$$

$$0.63 = \frac{63}{100} \quad 0.48 = \frac{48}{100}$$

Section 5

Complete the fraction sequence:

$\frac{1}{3}$	$\frac{2}{3}$	1	$1\frac{1}{3}$	$1\frac{2}{3}$	2	$2\frac{1}{3}$	$2\frac{2}{3}$	3
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Section 8

How many right angles are there in one complete turn? Draw a diagram to show this.

Four right angles

SIMMERING PLATINUM

Section 1

Write these Roman Numerals as numbers:

$$CCIX \rightarrow \boxed{209}$$

$$DCLXXVII \rightarrow \boxed{677}$$

Section 2

Write all the square numbers from 1×1 to 12×12 .

1, 4, 9, 16, 25, 36, 49, 64, 81, 100, 121, 144

Section 3

Use a formal written method to work out these calculations:

$$216 \times 14$$

$$954 \div 6$$

$$3024$$

$$159$$

Section 4

Calculate:

$$\frac{2}{3} + \frac{1}{6} = \frac{5}{6}$$

$$\frac{7}{10} - \frac{3}{5} = \frac{1}{10}$$

Section 6

A plastic box weighs 25g and six cricket balls weigh 300g. How much do three plastic boxes, each with six cricket balls, weigh in kilograms?

$$\boxed{0.975\text{kg}}$$

Section 8

Here is a bus timetable:

Jordanthorpe	07:19	07:31	07:43
Nether Edge	07:48	08:00	08:12
Sheffield	08:06	08:18	08:30
Pitsmoor	08:20	08:32	08:44
Shiregreen	08:40	08:52	09:04

Do all the buses take the same time for each journey from Jordanthorpe to Shiregreen?

yes

Jan needs to arrive in Sheffield by quarter past eight. Which bus should he catch from Nether Edge?

07.48

Section 5

Draw lines to match the following:

$\frac{53}{100}$	\times	13%
$\frac{13}{100}$	\times	53%
$\frac{79}{100}$	\times	79%

Section 7

Write acute, obtuse or reflex underneath each angle:



obtuse

acute

reflex

PLEASE TRY THE ACTIVITIES..

Roman Numeral Quantities

Titus is making a Roman stew called pottage. The quantities on this list of ingredients are written in Roman numerals, but Titus finds them hard to understand. Can you tell him how much of each item he needs?



Carrots	II
Potatoes	V
Leeks	X
Chunks of beef	VII
Onions	V
Tomatoes	IX
Cloves of garlic	I
Handfuls of corn	III
Mint leaves	VI

Questions:

1. How many carrots are needed?
2. How many handfuls of corn are needed?
3. How many cloves of garlic are needed?
4. How many mint leaves are needed?
5. How many tomatoes are needed?
6. How many potatoes are needed?
7. How many onions are needed?
8. How many leeks are needed?
9. How many chunks of beef are needed?

Roman Numeral Secret Codes



a	I
e	II
i	III
o	IV
u	V
t	VI
h	VII
f	VIII
g	IX
m	X
n	XI
s	XII

This secret code is written in the numbers you are used to. Use the corresponding Roman numerals to help you decipher the code.

6 7 2 10 4 5 12 2 1 6 2 6 7 2 8 1 6.

9 4 8 1 1 2 6 8 3 1 2 7 2 1 2!

6 7 2 12 5 11 3 1 2 9 1 1 2.

6 7 2 10 4 4 11 7 1 1 2 1 7 1 6.

Roman Numeral Secret Codes



a	I
e	II
i	III
o	IV
u	V
t	VI
h	VII
f	VIII
g	IX
m	X
n	XI
s	XII

This secret code is written in the numbers you are used to. Use the corresponding Roman numerals to help you decipher the code.

10 16 7 12 3 12 8 5 11.

3 9 4 6 1 6 11 3 11 6 7 2 12 5 11.

6 7 2 12 6 19 2 3 12 12 2 6.

3 11 0 11 4 6 12 7 4 5 6 3 11 9!

Roman Numeral Secret Codes



a	I
e	II
i	III
o	IV
u	V
t	VI
h	VII
f	VIII
g	IX
m	X
n	XI
s	XII

This secret code is written in the numbers you are used to. Use the corresponding Roman numerals to help you decipher the code.

6 7 1 6 10 4 5 11 6 13 11 3 12 7 5 9 2!

6 7 1 6 10 4 5 12 2 7 1 12 1 7 1 6!

3 12 2 2 6 7 2 12 2 1.

12 7 5 6 6 7 2 9 1 6 2!

Roman Numeral Quantities

Questions:

1. 2
2. 3
3. 1
4. 6
5. 9
6. 5
7. 5
8. 10
9. 7

Roman Numeral Secret Codes!

The mouse ate the fat.

Go fast fish!

The sun is gas.

The moon has a hat.

Roman Numeral Secret Codes!

Maths is fun.

I got a tan in the sun.

The stage is set.

I am not shouting!

Roman Numeral Secret Codes!

That mountain is huge!

That mouse has a hat!

I see the sea.

Shut the gate!