



MATHS WEEK

**CODEBREAKER
RESOURCE**

TEACHER INFORMATION SHEET

Print the activity cards out and cut them up.

- The activity cards work for all year group challenges so can be shared between classes.
- Spread the cards around the hall, playground or field.
- Give each child or team a challenge sheet.

Children answer
a question...

What is the missing number?

1	2	3		5	6	7
---	---	---	--	---	---	---

...run to locate
their answer on an
activity card...

M	40.5	38
	4	350
	16	8,479

...and write the
corresponding letter
in their table.

Question	Answer	Letter							
What is the missing number? <table border="1"> <tr> <td>1</td> <td>2</td> <td>3</td> <td></td> <td>5</td> <td>6</td> <td>7</td> </tr> </table>	1	2	3		5	6	7	4	M
1	2	3		5	6	7			

If the answers are correct, the corresponding letters will unlock a code.

Additional activity

The activity cards can be used again and again to provide new challenges for your pupils.

Ask children to design their own codebreaker task by using the answers provided to create their own questions.

A	9,217	86
	1	8
	48	541

B	3	112
	18	1,539
	600	21

C	13	20
	4,550	400
	103	144

D	22	132
	550	81
	15.5	12,100

E	28	13,200
	19	54
	61	14,997

F	26	8,500
	15	116
	240	5,782

G	31	650
	49	120
	2,789	20,719

H	4,000	1,995
	5	64
	836	750

I	500	12.5
	34	106
	1,808	21,700

J	33	124
	190	63
	1,000	6,448

K	36	7.5
	40	900
	130	121

L	12	37
	10	96
	821	2

M	40.5	38
	4	350
	16	8,479

N	18,668	150
	14	30
	420	41

O	14,500	556
	17	24
	35	200

P	53	250
	7,320	290
	32	99

Q	39	3,280
	180	620
	28.5	84

R	25	1,342
	6	102
	27	450

S	23	7
	80	160
	11	9,998

T	6,910	42
	9	50
	138	10,000

U	45	800
	72	275
	1,499	100

V	29	44
	2,225	525
	7,196	1,684

W	8,797	199
	700	75
	280	47

X	70	1,288
	56	46
	950	4,200

Y

20,000

85

66

110

77

79

Z

60

107

299

52

5,000

88

Year 1



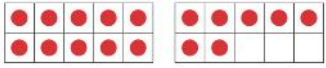
Codebreaker Challenge



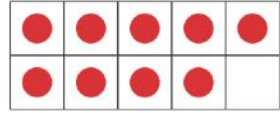

Answer a question then try to find your answer on a card.

Write down the letter next to the answer to crack the code.

Activity 1

Question	Answer	Letter							
What is the missing number? <table border="1" style="width: 100%; text-align: center;"> <tr> <td>1</td><td>2</td><td>3</td><td></td><td>5</td><td>6</td><td>7</td> </tr> </table>	1	2	3		5	6	7		
1	2	3		5	6	7			
$4 - 3 = \underline{\quad}$									
What is the missing number? 									
Which number is the greatest? 4 1 8 5									
$2 + 7 = \underline{\quad}$									
How many stars are there? 									
What number is shown? 									
What is the missing number? <table border="1" style="width: 100%; text-align: center;"> <tr> <td>11</td><td>12</td><td>13</td><td></td><td>15</td><td>16</td> </tr> </table>	11	12	13		15	16			
11	12	13		15	16				

Activity 2

Question	Answer	Letter						
What is the missing number? <table border="1" style="width: 100%; text-align: center;"> <tr> <td>11</td><td>12</td><td>13</td><td>14</td><td></td><td>16</td> </tr> </table>	11	12	13	14		16		
11	12	13	14		16			
$18 - 1 = \underline{\quad}$								
Which number is the greatest? 15 9 6 17 4								
What number is shown? 								
$11 + 7 = \underline{\quad}$								
$\underline{\quad} + 7 = 15$								
How many squares are there? 								
Which number is the smallest? 8 2 12 6								

Year 1




Codebreaker Challenge

ANSWERS



Answer a question then try to find your answer on a card.

Write down the letter next to the answer to crack the code.

Activity 1

Question	Answer	Letter							
What is the missing number? <table border="1" style="display: inline-table;"> <tr> <td>1</td><td>2</td><td>3</td><td></td><td>5</td><td>6</td><td>7</td> </tr> </table>	1	2	3		5	6	7	4	M
1	2	3		5	6	7			
$4 - 3 = \underline{\quad}$	1	A							
What is the missing number? 	6	R							
Which number is the greatest? 4 1 8 5	8	A							
$2 + 7 = \underline{\quad}$	9	T							
How many stars are there? 	5	H							
What number is shown? 	17	O							
What is the missing number? <table border="1" style="display: inline-table;"> <tr> <td>11</td><td>12</td><td>13</td><td></td><td>15</td><td>16</td> </tr> </table>	11	12	13		15	16	14	N	
11	12	13		15	16				

Activity 2

Question	Answer	Letter						
What is the missing number? <table border="1" style="display: inline-table;"> <tr> <td>11</td><td>12</td><td>13</td><td>14</td><td></td><td>16</td> </tr> </table>	11	12	13	14		16	15	F
11	12	13	14		16			
$18 - 1 = \underline{\quad}$	17	O						
Which number is the greatest? 15 9 6 17 4	17	O						
What number is shown? 	9	T						
$11 + 7 = \underline{\quad}$	18	B						
$\underline{\quad} + 7 = 15$	8	A						
How many squares are there? 	10	L						
Which number is the smallest? 8 2 12 6	2	L						

Year 2

Codebreaker Challenge



Answer a question then try to find your answer on a card.

Write down the letter next to the answer to crack the code.

Activity 1

Question	Answer	Letter				
Which number is the smallest? 48 82 41 29						
$28 + 7 = \underline{\quad}$						
$\underline{\quad}$ tens + 7 ones = 27						
$47 = 35 + \underline{\quad}$						
What is the missing part? <table border="1" style="margin: 10px auto;"> <tr> <td style="background-color: #d9ead3;">11</td> <td style="background-color: #d9ead3;">?</td> </tr> <tr> <td colspan="2" style="background-color: #fff2cc;">30</td> </tr> </table>	11	?	30			
11	?					
30						
What number is 7 less than 73?						
What is the missing number? 9, 12, 15, $\underline{\quad}$, 21						
3 tens + $\underline{\quad}$ ones = 38						
Write "ninety-six" in numerals.						
What is the missing number? 20, 18, 16, 14, $\underline{\quad}$, 10						

Activity 2

Question	Answer	Letter				
4 tens + 9 ones = $\underline{\quad}$						
Write "seventy-nine" in numerals.						
What is the missing number? 20, 18, $\underline{\quad}$, 14, 12, 10						
What is the missing number? 15, 18, 21, 24, 27, $\underline{\quad}$						
What number is 6 less than 54?						
$\underline{\quad} = 60 + 20$						
What is the missing part? <table border="1" style="margin: 10px auto;"> <tr> <td style="background-color: #d9ead3;">31</td> <td style="background-color: #d9ead3;">?</td> </tr> <tr> <td colspan="2" style="background-color: #fff2cc;">40</td> </tr> </table>	31	?	40			
31	?					
40						
$39 - 5 = \underline{\quad}$						
$38 = 25 + \underline{\quad}$						
Which number is the smallest? 35 23 32 51						

Year 2

Codebreaker Challenge

ANSWERS

Answer a question then try to find your answer on a card.

Write down the letter next to the answer to crack the code.

Activity 1

Question	Answer	Letter				
Which number is the smallest? 48 82 41 29	29	V				
$28 + 7 = \underline{\quad}$	35	O				
$\underline{\quad}$ tens + 7 ones = 27	2	L				
$47 = 35 + \underline{\quad}$	12	L				
What is the missing part? <table border="1" style="margin: 10px auto;"> <tr> <td style="background-color: #c0c0c0;">11</td> <td style="background-color: #c0c0c0;">?</td> </tr> <tr> <td colspan="2" style="background-color: #ffffcc;">30</td> </tr> </table>	11	?	30		19	E
11	?					
30						
What number is 7 less than 73?	66	Y				
What is the missing number? 9, 12, 15, $\underline{\quad}$, 21	18	B				
3 tens + $\underline{\quad}$ ones = 38	8	A				
Write "ninety-six" in numerals.	96	L				
What is the missing number? 20, 18, 16, 14, $\underline{\quad}$, 10	12	L				

Activity 2

Question	Answer	Letter				
4 tens + 9 ones = $\underline{\quad}$	49	G				
Write "seventy-nine" in numerals.	79	Y				
What is the missing number? 20, 18, $\underline{\quad}$, 14, 12, 10	16	M				
What is the missing number? 15, 18, 21, 24, 27, $\underline{\quad}$	30	N				
What number is 6 less than 54?	48	A				
$\underline{\quad} = 60 + 20$	80	S				
What is the missing part? <table border="1" style="margin: 10px auto;"> <tr> <td style="background-color: #c0c0c0;">31</td> <td style="background-color: #c0c0c0;">?</td> </tr> <tr> <td colspan="2" style="background-color: #ffffcc;">40</td> </tr> </table>	31	?	40		9	T
31	?					
40						
$39 - 5 = \underline{\quad}$	34	I				
$38 = 25 + \underline{\quad}$	13	C				
Which number is the smallest? 35 23 32 51	23	S				


Year 3 Codebreaker Challenge




Answer a question then try to find your answer on a card.

Write down the letter next to the answer to crack the code.

Activity 1

Question	Answer	Letter					
What is the value of the number 8 in the number 387?							
____ \div 8 = 5							
8 \times 6 = ____							
36 \div 4 = ____							
What number is 23 less than 77?							
28 - ____ = 7							
What is the missing number? 4, 8, 12, 16, 20, ____, 28, 32							
What is the greatest number you can make using these cards? 							
What is the smallest number? 201 102 221 112							
What is the missing number? <table border="1" data-bbox="167 2016 510 2072"> <tr> <td>650</td> <td>600</td> <td></td> <td>500</td> <td>450</td> </tr> </table>	650	600		500	450		
650	600		500	450			

Activity 2

Question	Answer	Letter					
What is the smallest number you can make using these cards? 							
What is the missing number? 50, 45, 40, ____, 30, 25							
What number is 16 less than 88?							
____ \div 3 = 9							
What is the greatest number? 400 402 404 420							
93 - 7 = ____							
What is the missing number? <table border="1" data-bbox="829 1713 1173 1769"> <tr> <td>250</td> <td>300</td> <td></td> <td>400</td> <td>450</td> </tr> </table>	250	300		400	450		
250	300		400	450			
What is the missing number? 4, 8, 12, 16, 20, 24, ____, 32							
5 \times 6 = ____							
What is the value of the number 5 in the number 751?							


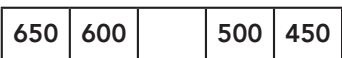
Year 3 Codebreaker Challenge

ANSWERS



Answer a question then try to find your answer on a card.

Write down the letter next to the answer to crack the code.

Activity 1

Question	Answer	Letter
What is the value of the number 8 in the number 387?	80	S
____ \div 8 = 5	40	K
8 \times 6 = ____	48	A
36 \div 4 = ____	9	T
What number is 23 less than 77?	54	E
28 - ____ = 7	21	B
What is the missing number? 4, 8, 12, 16, 20, ____, 28, 32	24	O
What is the greatest number you can make using these cards? 	541	A
What is the smallest number? 201 102 221 112	102	R
What is the missing number? 	550	D

Activity 2

Question	Answer	Letter
What is the smallest number you can make using these cards? 	138	T
What is the missing number? 50, 45, 40, ____, 30, 25	35	O
What number is 16 less than 88?	72	U
____ \div 3 = 9	27	R
What is the greatest number? 400 402 404 420	420	N
93 - 7 = ____	86	A
What is the missing number? 	350	M
What is the missing number? 4, 8, 12, 16, 20, 24, ____, 32	28	E
5 \times 6 = ____	30	N
What is the value of the number 5 in the number 751?	50	T

Year 4

Codebreaker Challenge



Answer a question then try to find your answer on a card.

Write down the letter next to the answer to crack the code.

Activity 1

Question	Answer	Letter															
Round 163 to the nearest 10.																	
$4,200 \div 10 = \underline{\hspace{2cm}}$																	
What is the value of the underlined digit? 8, <u>2</u> 53																	
<table border="1" style="margin-left: auto; margin-right: auto;"> <tr><td></td><td>3</td><td>6</td><td>9</td><td>0</td></tr> <tr><td>+</td><td>5</td><td>1</td><td>0</td><td>7</td></tr> <tr><td></td><td></td><td></td><td></td><td></td></tr> </table>		3	6	9	0	+	5	1	0	7							
	3	6	9	0													
+	5	1	0	7													
Round 559 to the nearest 100.																	
What number is 100 more than 456?																	
$4,541 - 4,000 = \underline{\hspace{2cm}}$																	
Write the Roman Numeral XXV as a number.																	
What is the missing number?																	
<table border="1" style="margin-left: auto; margin-right: auto;"> <tr><td>650</td><td>625</td><td>600</td><td>575</td><td></td></tr> </table>	650	625	600	575													
650	625	600	575														
$540 = \underline{\hspace{2cm}} \times 10$																	
$72 \div \underline{\hspace{2cm}} = 12$																	

Activity 2

Question	Answer	Letter															
What number is 100 less than 111?																	
What is the value of the underlined digit? <u>4</u> ,869																	
Write the Roman Numeral XVII as a number.																	
Round 740 to the nearest 100.																	
Round 194 to the nearest 10.																	
What is double 36?																	
<table border="1" style="margin-left: auto; margin-right: auto;"> <tr><td></td><td>1</td><td>3</td><td>2</td><td>6</td></tr> <tr><td>+</td><td>7</td><td>1</td><td>5</td><td>3</td></tr> <tr><td></td><td></td><td></td><td></td><td></td></tr> </table>		1	3	2	6	+	7	1	5	3							
	1	3	2	6													
+	7	1	5	3													
$320 = \underline{\hspace{2cm}} \times 10$																	
$5,000 \div 10 = \underline{\hspace{2cm}}$																	
$\underline{\hspace{2cm}} \times 3 = 90$																	
$\underline{\hspace{2cm}} \div 7 = 7$																	

Year 4 Codebreaker Challenge

ANSWERS

Answer a question then try to find your answer on a card.

Write down the letter next to the answer to crack the code.

Activity 1

Question	Answer	Letter															
Round 163 to the nearest 10.	160	S															
$4,200 \div 10 = \underline{\quad}$	420	N															
What is the value of the underlined digit? 8, <u>2</u> 53	200	O															
<table border="1" style="margin-left: auto; margin-right: auto;"> <tr><td></td><td>3</td><td>6</td><td>9</td><td>0</td></tr> <tr><td>+</td><td>5</td><td>1</td><td>0</td><td>7</td></tr> <tr><td></td><td></td><td></td><td></td><td></td></tr> </table>		3	6	9	0	+	5	1	0	7						8,797	W
	3	6	9	0													
+	5	1	0	7													
Round 559 to the nearest 100.	600	B															
What number is 100 more than 456?	556	O															
$4,541 - 4,000 = \underline{\quad}$	541	A															
Write the Roman Numeral XXV as a number.	25	R															
What is the missing number? <table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td>650</td> <td>625</td> <td>600</td> <td>575</td> <td><input type="text"/></td> </tr> </table>	650	625	600	575	<input type="text"/>	550	D										
650	625	600	575	<input type="text"/>													
$540 = \underline{\quad} \times 10$	54	E															
$72 \div \underline{\quad} = 12$	6	R															

Activity 2

Question	Answer	Letter															
What number is 100 less than 111?	11	S															
What is the value of the underlined digit? <u>4</u> ,869	4,000	H															
Write the Roman Numeral XVII as a number.	17	O															
Round 740 to the nearest 100.	700	W															
Round 194 to the nearest 10.	190	J															
What is double 36?	72	U															
<table border="1" style="margin-left: auto; margin-right: auto;"> <tr><td></td><td>1</td><td>3</td><td>2</td><td>6</td></tr> <tr><td>+</td><td>7</td><td>1</td><td>5</td><td>3</td></tr> <tr><td></td><td></td><td></td><td></td><td></td></tr> </table>		1	3	2	6	+	7	1	5	3						8,497	M
	1	3	2	6													
+	7	1	5	3													
$320 = \underline{\quad} \times 10$	32	P															
$5,000 \div 10 = \underline{\quad}$	500	I															
$\underline{\quad} \times 3 = 90$	30	N															
$\underline{\quad} \div 7 = 7$	49	G															

Year 5

Codebreaker Challenge



Answer a question then try to find your answer on a card.

Write down the letter next to the answer to crack the code.

Activity 1

Activity 2

Question	Answer	Letter															
Round 7,319 to the nearest 10.																	
$86,000 \div 1,000$																	
Which is the greatest number? 1,342 1,319 1,309 1,099																	
<table border="1"> <tr><td></td><td>6</td><td>5</td><td>9</td><td>0</td></tr> <tr><td>+</td><td>2</td><td>6</td><td>2</td><td>7</td></tr> <tr><td></td><td></td><td></td><td></td><td></td></tr> </table>		6	5	9	0	+	2	6	2	7							
	6	5	9	0													
+	2	6	2	7													
$4,999 + 4,999 =$ _____																	
What is the difference between -6 and 2 ?																	
0.34×100																	
<table border="1"> <tr><td></td><td>1</td><td>6</td><td>7</td><td>5</td></tr> <tr><td>-</td><td></td><td>8</td><td>5</td><td>4</td></tr> <tr><td></td><td></td><td></td><td></td><td></td></tr> </table>		1	6	7	5	-		8	5	4							
	1	6	7	5													
-		8	5	4													
What is the Roman Numeral CVI as a number?																	
Which number is a prime number? 22 41 36 55																	
$7^2 =$ _____																	

Question	Answer	Letter															
<table border="1"> <tr><td></td><td>1</td><td>5</td><td>4</td><td>8</td></tr> <tr><td>-</td><td></td><td>7</td><td>1</td><td>2</td></tr> <tr><td></td><td></td><td></td><td></td><td></td></tr> </table>		1	5	4	8	-		7	1	2							
	1	5	4	8													
-		7	1	2													
Half of 29,000																	
What is the difference between -2 and 4 ?																	
Which number is a prime number? 18 23 35 49																	
$10,000 + 3,000 + 200$																	
$27,000 \div 1,000$																	
What is the Roman Numeral XLVIII as a number?																	
Round 4,554 to the nearest 10.																	
<table border="1"> <tr><td></td><td>1</td><td>2</td><td>0</td><td>9</td></tr> <tr><td>+</td><td></td><td>5</td><td>9</td><td>9</td></tr> <tr><td></td><td></td><td></td><td></td><td></td></tr> </table>		1	2	0	9	+		5	9	9							
	1	2	0	9													
+		5	9	9													
4.2×100																	
Which is the greatest number? 2,687 2,778 2,789 2,750																	

Year 5 Codebreaker Challenge

ANSWERS

Answer a question then try to find your answer on a card.

Write down the letter next to the answer to crack the code.

Activity 1

Question	Answer	Letter															
Round 7,319 to the nearest 10.	7,320	P															
$86,000 \div 1,000$	86	A															
Which is the greatest number? 1,342 1,319 1,309 1,099	1,342	R															
<table border="1" style="display: inline-table; vertical-align: middle;"> <tr><td></td><td>6</td><td>5</td><td>9</td><td>0</td></tr> <tr><td>+</td><td>2</td><td>6</td><td>2</td><td>7</td></tr> <tr><td></td><td></td><td></td><td></td><td></td></tr> </table>		6	5	9	0	+	2	6	2	7						9,217	A
	6	5	9	0													
+	2	6	2	7													
$4,999 + 4,999 = \underline{\hspace{2cm}}$	9,998	S															
What is the difference between -6 and 2 ?	8	A															
0.34×100	34	I															
<table border="1" style="display: inline-table; vertical-align: middle;"> <tr><td></td><td>1</td><td>6</td><td>7</td><td>5</td></tr> <tr><td>-</td><td></td><td>8</td><td>5</td><td>4</td></tr> <tr><td></td><td></td><td></td><td></td><td></td></tr> </table>		1	6	7	5	-		8	5	4						821	L
	1	6	7	5													
-		8	5	4													
What is the Roman Numeral CVI as a number?	106	I															
Which number is a prime number? 22 41 36 55	41	N															
$7^2 = \underline{\hspace{2cm}}$	49	G															

Activity 2

Question	Answer	Letter															
<table border="1" style="display: inline-table; vertical-align: middle;"> <tr><td></td><td>1</td><td>5</td><td>4</td><td>8</td></tr> <tr><td>-</td><td></td><td>7</td><td>1</td><td>2</td></tr> <tr><td></td><td></td><td></td><td></td><td></td></tr> </table>		1	5	4	8	-		7	1	2						836	H
	1	5	4	8													
-		7	1	2													
Half of 29,000	14,500	O															
What is the difference between -2 and 4 ?	6	R															
Which number is a prime number? 18 23 35 49	23	S															
$10,000 + 3,000 + 200$	13,200	E															
$27,000 \div 1,000$	27	R															
What is the Roman Numeral XLVIII as a number?	48	A															
Round 4,554 to the nearest 10.	4,550	C															
<table border="1" style="display: inline-table; vertical-align: middle;"> <tr><td></td><td>1</td><td>2</td><td>0</td><td>9</td></tr> <tr><td>+</td><td></td><td>5</td><td>9</td><td>9</td></tr> <tr><td></td><td></td><td></td><td></td><td></td></tr> </table>		1	2	0	9	+		5	9	9						1,808	I
	1	2	0	9													
+		5	9	9													
4.2×100	420	N															
Which is the greatest number? 2,687 2,778 2,789 2,750	2,789	G															

Year 6 Codebreaker Challenge



Answer a question then try to find your answer on a card.

Write down the letter next to the answer to crack the code.

Activity 1

Question	Answer	Letter																		
Round 14,549 to the nearest hundred.																				
$3^3 = \underline{\hspace{2cm}}$																				
$3,500 \div 7 = \underline{\hspace{2cm}}$																				
Which is a prime number? 61 62 63 64 65																				
$5 + 5 \times 5$																				
<table border="1" style="display: inline-table; vertical-align: middle;"> <tr><td></td><td>1</td><td>3</td><td>8</td><td>2</td></tr> <tr><td>x</td><td></td><td></td><td></td><td>5</td></tr> <tr><td></td><td></td><td></td><td></td><td></td></tr> </table>		1	3	8	2	x				5										
	1	3	8	2																
x				5																
$3 \times 4,999 = \underline{\hspace{2cm}}$																				
$9.5 \times 2 = \underline{\hspace{2cm}}$																				
What is the missing number? <table border="1" style="display: inline-table; vertical-align: middle;"> <tr><td>750</td><td>675</td><td>600</td><td>525</td><td></td></tr> </table>	750	675	600	525																
750	675	600	525																	
$30 - 17.5 = \underline{\hspace{2cm}}$																				
What is the smallest number? 18,686 18,668 18,680																				
<table border="1" style="display: inline-table; vertical-align: middle;"> <tr><td></td><td>2</td><td>9</td><td>6</td><td>7</td><td>5</td></tr> <tr><td>-</td><td></td><td>8</td><td>9</td><td>5</td><td>6</td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table>		2	9	6	7	5	-		8	9	5	6								
	2	9	6	7	5															
-		8	9	5	6															

Activity 2

Question	Answer	Letter																		
$3 + 2 \times 50$																				
$5 \times 399 = \underline{\hspace{2cm}}$																				
Half of 96																				
$50 - 9.5 = \underline{\hspace{2cm}}$																				
What is the missing number? <table border="1" style="display: inline-table; vertical-align: middle;"> <tr><td>130</td><td>170</td><td>210</td><td></td><td>290</td></tr> </table>	130	170	210		290															
130	170	210		290																
What is the greatest number? 1,089 1,808 1,800																				
$1,600 \div \underline{\hspace{2cm}} = 8$																				
<table border="1" style="display: inline-table; vertical-align: middle;"> <tr><td></td><td>4</td><td>6</td><td>6</td><td>7</td></tr> <tr><td>x</td><td></td><td></td><td></td><td>4</td></tr> <tr><td></td><td></td><td></td><td></td><td></td></tr> </table>		4	6	6	7	x				4										
	4	6	6	7																
x				4																
<table border="1" style="display: inline-table; vertical-align: middle;"> <tr><td></td><td>1</td><td>6</td><td>2</td><td>8</td><td>6</td></tr> <tr><td>-</td><td></td><td>6</td><td>2</td><td>8</td><td>8</td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table>		1	6	2	8	6	-		6	2	8	8								
	1	6	2	8	6															
-		6	2	8	8															
$4^3 = \underline{\hspace{2cm}}$																				
Round 21,669 to the nearest hundred.																				
Which is a prime number? 51 52 53 54 55																				

Year 6 Codebreaker Challenge

ANSWERS

Answer a question then try to find your answer on a card.

Write down the letter next to the answer to crack the code.

Activity 1

Question	Answer	Letter																		
Round 14,549 to the nearest hundred.	14,500	O																		
$3^3 = \underline{\hspace{2cm}}$	27	R																		
$3,500 \div 7 = \underline{\hspace{2cm}}$	500	I																		
Which is a prime number? 61 62 63 64 65	61	E																		
$5 + 5 \times 5$	30	N																		
<table border="1" style="display: inline-table; vertical-align: middle;"> <tr><td></td><td>1</td><td>3</td><td>8</td><td>2</td></tr> <tr><td>x</td><td></td><td></td><td></td><td>5</td></tr> <tr><td></td><td></td><td></td><td></td><td></td></tr> </table>		1	3	8	2	x				5						6,910	T			
	1	3	8	2																
x				5																
$3 \times 4,999 = \underline{\hspace{2cm}}$	14,997	E																		
$9.5 \times 2 = \underline{\hspace{2cm}}$	19	E																		
What is the missing number? <table border="1" style="display: inline-table; vertical-align: middle;"> <tr><td>750</td><td>675</td><td>600</td><td>525</td><td></td></tr> </table>	750	675	600	525		450	R													
750	675	600	525																	
$30 - 17.5 = \underline{\hspace{2cm}}$	12.5	I																		
What is the smallest number? 18,686 18,668 18,680	18,668	N																		
<table border="1" style="display: inline-table; vertical-align: middle;"> <tr><td></td><td>2</td><td>9</td><td>6</td><td>7</td><td>5</td></tr> <tr><td>-</td><td></td><td>8</td><td>9</td><td>5</td><td>6</td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table>		2	9	6	7	5	-		8	9	5	6							20,719	G
	2	9	6	7	5															
-		8	9	5	6															

Activity 2

Question	Answer	Letter																		
$3 + 2 \times 50$	103	C																		
$5 \times 399 = \underline{\hspace{2cm}}$	1,995	H																		
Half of 96	48	A																		
$50 - 9.5 = \underline{\hspace{2cm}}$	40.5	M																		
What is the missing number? <table border="1" style="display: inline-table; vertical-align: middle;"> <tr><td>130</td><td>170</td><td>210</td><td></td><td>290</td></tr> </table>	130	170	210		290	250	P													
130	170	210		290																
What is the greatest number? 1,089 1,808 1,800	1,808	I																		
$1,600 \div \underline{\hspace{2cm}} = 8$	200	O																		
<table border="1" style="display: inline-table; vertical-align: middle;"> <tr><td></td><td>4</td><td>6</td><td>6</td><td>7</td></tr> <tr><td>x</td><td></td><td></td><td></td><td>4</td></tr> <tr><td></td><td></td><td></td><td></td><td></td></tr> </table>		4	6	6	7	x				4						18,668	N			
	4	6	6	7																
x				4																
<table border="1" style="display: inline-table; vertical-align: middle;"> <tr><td></td><td>1</td><td>6</td><td>2</td><td>8</td><td>6</td></tr> <tr><td>-</td><td></td><td>6</td><td>2</td><td>8</td><td>8</td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table>		1	6	2	8	6	-		6	2	8	8							9,998	S
	1	6	2	8	6															
-		6	2	8	8															
$4^3 = \underline{\hspace{2cm}}$	64	H																		
Round 21,669 to the nearest hundred.	21,700	I																		
Which is a prime number? 51 52 53 54 55	53	P																		