

NAME:	
CLASS:	
DATE:	

Basic

1)

Place Value Space Invaders

The digits in the number 81234.5796 are "aliens".

a) Enter the number into your calculator.

b) Try to exterminate each "alien" by subtracting each digit, one by one.

Rule: You must exterminate them one by one and in order.

Thus start with 1, then 2, and so on, until you have 0 on your display.

Write down the key presses required in the grid below.

Key Press	Display
	81234.5796
-1000	80234.5796 (1 down)

2) Find the factors of the following numbers:

a) 12	b) 10	c) 18	d) 24	e) 13

Which of the above numbers are prime?

		Basic		
3) In the followir	ng list of numbers:	10, 4, 23, 18, 65, 33, 22, 21		
a) Which are mu	Itiples of 2?		b) Which are multiples	of 3?
4) Find the first	four multiples of th	e following numbers:		
a) 4	b) 5	c) 8	d) 15	e) 20
5) Work out the	se totals (vou will h	iave to convert some measure	amente first):	
a) 47.2cm + 13c	m	b) 56.2cm + 3.7cm	c) 123	9mm + 12.3cm

Twig		Why Do	We Count	in Tens?
NAME:				
CLASS:				
DATE:				
		Core		
1) Find the facto	ors of the following num	pers:		
a) 12	b) 10	c) 18	d) 24	e) 13
Which of the abo 2) In the followin a) Which are mu	ove numbers are prime ng list of numbers: 10, 4 ultiples of 2?	? , 23, 18, 65, 33, 22, 21	b) Which are multiples of	f 3?
3) Find the first f	four multiples of the follo	owing numbers:		
a) 4	b) 5	c) 8	d) 15	e) 20
4) Multiply the fo a) 1.7	bllowing by 10, 100 and b) 0.06	1000: c) 124	d) 21.93	e) 25.64
		3		



		Core		
5) Divide the follow	ving by 10 and 100:			
a) 123	b) 23.8	c) 20	d) 23.45	e) 1234.234
a) $47 2 \text{ cm} + 13 \text{ cm}$	totais (you will have t	b) 56 2cm + 3 7cm	ents first): c) 123mr	n + 12 3cm
u) 11.2011 * 10011		5,00.2011 - 0.7011	0, 12011	12.0011
d) 4.1cm + 139mm	1	e) 23.5cm + 346mm	f) 347mn	n + 10cm
7) Five friends mea	asure their heights: J	ohn is 1.54m, Mark is 139cr	m, Gemma is 162cm, Ka	asim is 1.2m and
Alex is 1.65m. What	at is their combined h	eight?		
8) A plank of wood	is 2.4m long. A 126c	m piece is cut off. What is th	he length of the remaini	ng piece, in metres'

Twig		Why Do	We Count	in Tens?
NAME:				
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		Advanced		
1) Find the facto	ors of the following number	'S:		
a) 12	b) 10	c) 18	d) 24	e) 13
Which of the ab	ove numbers are prime?	ing numbers		
a) 4	b) 5	c) 8	d) 15	e) 20
3) Multiply the f	ollowing by 10, 100 and 10	00:		
a) 1.7	b) 0.06	c) 124	d) 21.93	e) 25.64
4) Divide the fol	lowing by 10 and 100:	c) 20	d) 23 45	P) 1234 234
a, 120	0/20.0	0/20	uj 20. 1 0	5/ 1234.234



Advanced 5) Work out these totals (you will have to convert some measurements first): a) 47.2cm + 13cm b) 56.2cm + 3.7cm c) 123mm + 12.3cm d) 4.1cm + 139mm e) 23.5cm + 346mm f) 347mm + 10cm 6) Five friends measure their heights: John is 1.54m, Mark is 139cm, Gemma is 162cm, Kasim is 1.2m and Alex is 1.65m. What is their combined height? 7) A plank of wood is 2.4m long. A 126cm piece is cut off. What is the length of the remaining piece, in metres?

8) Complete the following table using base 60 as the base system.

Base 10 Number	3600s (60 x 60)	60s	Units
73		1	13
345			
1230			
6000			
5600			



1)

Why Do We Count in Tens?

c) 24.6cm

ANSWERS

Basic

Key Press	Display	
	81234.5796	
-1000	80234.5796 (1 down)	
-200	80034.5796	
-30	80004.5796	
-4	80000.5796	
-0.5	80000.0796	
-0.0006	80000.079	
-0.07	80000.009	
-80000	0.009	
-0.009	0	

2) a) 1, 2, 3, 4, 6, 12 d) 1, 2, 3, 4, 6, 8, 12, 24	b) 1, 2, 5, 10 e) 1, 13 (prime)	c) 1, 2, 3, 6, 9, 18
3) a) 4, 10, 18, 22	b) 18, 21, 33	
4) a) 4, 8, 12, 16 d) 15, 30, 45, 60	b) 5, 10, 15, 20 e) 20, 40, 60, 80	c) 8, 16, 24, 32

5) a) 60.2cm

b) 59.9cm

Core

1) a) 1, 2, 3, 4, 6 d) 1, 2, 3, 4, 6, 8	5, 12 5, 12, 24	b) 1 e) 1	, 2, 5, 10 , 13 (prime	9)	c) 1, 2, 3, 6, 9	9, 18
2) a) 4, 10, 18, 2	2	b) 1	8, 21, 33			
3) a) 4, 8, 12, 16	b) 5, 10, 1	5, 20	c) 8, 1	6, 24, 32	d) 15, 30, 45, 60	e) 20, 40, 60, 80
4) a) 17; 170; 17 d) 219.3; 2193;	700 21,930	b) 0 e) 2	.6; 6; 60 56.4; 2564	; 25,640	c) 1240; 12,4	100; 124,000
5) a) 12.3; 1.23	b) 2.38; 0	238	c) 2; 0	0.2	d) 2.345; 0.2345	e) 123.4234; 12.34234
6) a) 60.2cm	b) 59.9cm	c) 2	4.6cm	d) 18cm	e) 58.1cm	f) 44.7cm
7) 7.4m						
8) 1.14m						



ANSWERS

1) a) 1, 2, 3, 4, 6, 12	b) 1, 2, 5, 10	c) 1, 2, 3, 6, 9, 18
d) 1, 2, 3, 4, 6, 8, 12, 24	e) 1, 13 (prime)	
2) a) 4, 8, 12, 16	b) 5, 10, 15, 20	c) 8, 16, 24, 32
d) 15, 30, 45, 60	e) 20, 40, 60, 80	
3) a) 17; 170; 1700	b) 0.6; 6; 60	c) 1240; 12,400; 124,000
d) 219.3; 2193; 21,930	e) 256.4; 2564; 25,640	
4) a) 12.3; 1.23	b) 2.38; 0.238	c) 2; 0.2
d) 2.345; 0.2345	e) 123.4234; 12.34234	
5) a) 60.2cm	b) 59.9cm	c) 24.6cm
d) 18cm	e) 58.1cm	f) 44.7cm

6) 7.4m

7) 1.14m

8)

Base 10 Number	3600s (60 x 60)	60s	Units
73		1	13
345		5	45
1230		20	30
6000	1	40	0
5600	1	33	20