

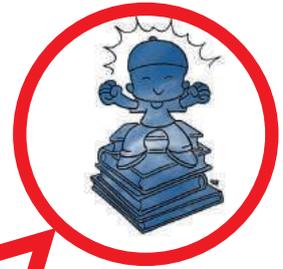
PRIME BITE C

Exploring the Forest Age range 7 - 9

Sunset Boulevard



The Sky's the Limit



Exploring the Forest



Golden Globes



Firing Ahead



Prime Bites

	THIS VOLUME	ISBN	APPROXIMATE AGE RANGE
C	EXPLORING THE FOREST	978-1-921917-05-9	7-9YRS

OTHERS IN THE SERIES:

A	THE SKY'S THE LIMIT	978-1-921917-03-5	5-7YRS
B	SUNSET BOULEVARD	978-1-921917-04-2	6-8YRS
D	GOLDEN GLOBES	978-1-921917-06-6	8-10YRS
E	FIRING AHEAD	978-1-921917-07-3	9-11YRS

The age ranges given are suggestions only as they will vary between education districts.

A SET OF PHOTOCOPY MASTERS FOR PYP MATHS PUBLISHED BY IBID PRESS.



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CONTENTS



Objective 1	Addition
Objective 2	Subtraction
Objective 3	Mixed Addition and Subtraction
Objective 4	Multiplication
Objective 5	Division
Objective 6	Mixed Multiplication and Division
Objective 7	Money - addition
Objective 8	Money - subtraction
Objective 9	Revision
Objective 10	Time Problems
Objective 11	Length Problems
Objective 12	Mass Problems
Objective 13	Capacity Problems
Objective 14	Revising Measurement
Objective 15	Fractions
Objective 16	Mixed examples: Money
Objective 17	General Revision
Objective 18	General Revision
Objective 19	Addition
Objective 20	Subtraction
Objective 21	Mixed Addition and Subtraction
Objective 22	Multiplication
Objective 23	Division
Objective 24	Mixed Multiplication and Division
Objective 25	Money - addition
Objective 26	Money - subtraction
Objective 27	Four Operations - Revision
Objective 28	Time Problems
Objective 29	Length Problems
Objective 30	Mass Problems
Objective 31	Capacity Problems
Objective 32	Revising Measurement
Objective 33	Fractions
Objective 34	Mixed examples: Money
Objective 35	General Revision
Objective 36	General Revision
Tangram Template & Answers	
Answers	





OBJECTIVE 1: ADDITION

WORD NUMBER BITES

- 1.i Six buses are parked at the station and there are nine more on their way. How many buses will there then be?

Working Space:	Answer:
-----------------------	----------------

- 1.ii Carlos sank nine balls in his first basketball match and eight in his second. How many balls has Carlos sunk?

Working Space:	Answer:
-----------------------	----------------

- 1.iii Debbie bought seven pineapples and six plums at the fruit shop. How many pieces of fruit did Debbie buy?

Working Space:	Answer:
-----------------------	----------------

NIFTY NUMBER BITES

Start from the top left-hand circle and finish at the bottom right.

Collect nine numbers and add them together.

What is your highest score?



SKILLS NUMBER BITES

Can you solve these number frames?

+	1	2	3	4	5	6	7	8	9	10	11	12
1												
3												

+	1	2	3	4	5	6	7	8	9	10	11	12
2												
4												

+	1	2	3	4	5	6	7	8	9	10	11	12
10												
5												





OBJECTIVE 2: SUBTRACTION

WORD NUMBER BITES

- 2.i We had fifteen avocados on our tree, but after the wind storm there were only six. How many were blown down?

Working Space:	Answer:
-----------------------	----------------

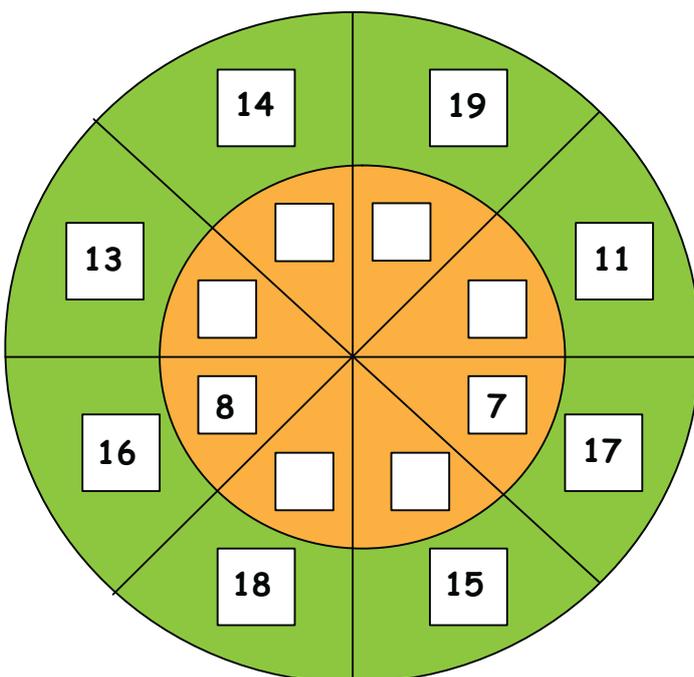
- 2.ii The swans had had ten cygnets but three are still in the nest How many cygnets were able to swim with a parent?

Working Space:	Answer:
-----------------------	----------------

- 2.iii Joseph delivered fourteen magazines but eight landed in muddy puddles. How many magazines stayed dry?

Working Space:	Answer:
-----------------------	----------------

NIFTY NUMBER BITES



Each slice adds up to the same amount.
Can you find the numbers that go in the empty squares?



SKILLS NUMBER BITES

Can you solve these number frames?

-	7	8	9	10	11	12	13	14	15	16	17	18
1												
5												

-	7	8	9	10	11	12	13	14	15	16	17	18
2												
4												



Learning is a teaching and a community activity.



OBJECTIVE 3: MIXED ADDITION AND SUBTRACTION

WORD NUMBER BITES

3.i Neville collected eleven plastic toys but gave five away to classmates. How many were kept?

Working Space:	Answer:
-----------------------	----------------

3.ii The supermarket gave out sixteen to two children. If Pablo received seven stickers how many stickers did Carl receive?

Working Space:	Answer:
-----------------------	----------------

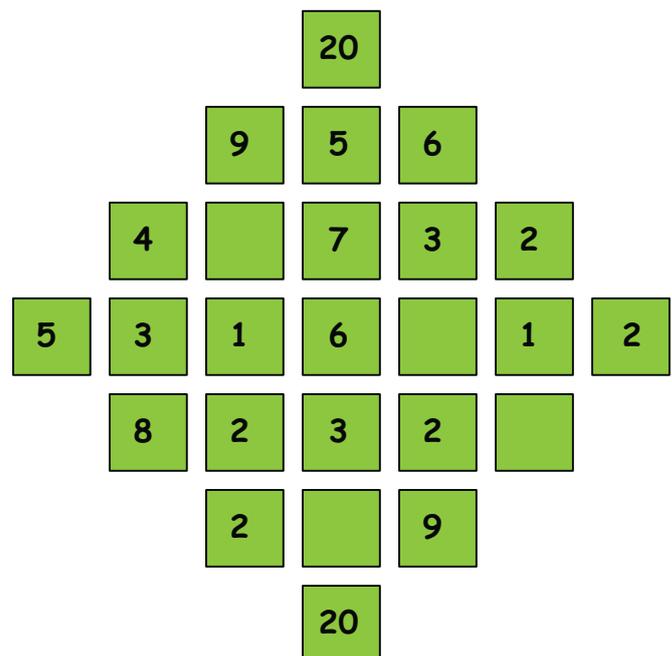
3.iii Susan moved sixteen chairs into the hall but Ben took ten back to the classroom How many chairs were left in the hall?

Working Space:	Answer:
-----------------------	----------------

NIFTY NUMBER BITES

Look carefully at this pattern.

What numbers should fill in the blank spaces?





SKILLS NUMBER BITES

Can you solve these number frames?

+	7	8	9	10	11	12	13	14	15	16	17	18
2												
3												

-	6	7	8	9	10	11	12	13	14	15	16	17
2												
4												





OBJECTIVE 4: MULTIPLICATION

WORD NUMBER BITES

4.i I watched five taxis pass our house. Each taxi had four people inside. How many people were in the three taxis?

Working Space:	Answer:
-----------------------	----------------

4.ii The supermarket gave each of three children five stickers each. How many stickers were given out?

Working Space:	Answer:
-----------------------	----------------

4.iii Linda cooked some bread rolls. There were four trays each holding four rolls. How many bread rolls were baked?

Working Space:	Answer:
-----------------------	----------------

NIFTY NUMBER BITES

				32
				48
				80
				36
?	?	?	?	

Each shape is worth a number.

The totals are on the ends of the rows.

Can you replace the question marks with the correct numbers?



SKILLS NUMBER BITES

Can you solve these number frames?

×	6	9	3	5	10	8	0	7	1	4	2
1	6										
2	12										

×	8	0	4	9	2	10	1	7	5	6	3
4	24										
3	32										

Multiplying by 5 is half the answer for multiplying by 10.

×	7	4	2	6	9	0	8	10	3	1	5
10	70										
5	35										





OBJECTIVE 5: DIVISION

WORD NUMBER BITES

5.i Peta bought twelve balloons, two for each child at the party. How many children were at the party?

Working Space:	Answer:
-----------------------	----------------

5.ii Eighteen corn seeds were planted in clumps of three. How many clumps were there?

Working Space:	Answer:
-----------------------	----------------

5.iii There were thirty two seats on the small plane. If they were arranged in groups of four, how many groups were there?

Working Space:	Answer:
-----------------------	----------------

NIFTY NUMBER BITES

1		3		5
	8		3	
3		2		6
	4		4	
5		2		7

Start at the bottom left-hand 5.

Add five numbers and finish at the top 5.

By adding 1 for each black square, find the path that makes 26.



SKILLS NUMBER BITES

Can you solve these number frames?

Dividing by 2 is half the answer to dividing by 1.

÷	10	20	8	22	14	2	18	6	16	13	4
1	10										
2	5										

Shaded boxes have remainders.

÷	6	12	16	22	15	24	18	21	36	27	30
2	3										
3	2										

Shaded boxes have remainders.

÷	10	15	30	25	40	12	5	18	20	24	50
2	5										
5	2										



How much knowledge do our Elders have?



OBJECTIVE 6: MIXED MULTIPLICATION AND DIVISION

WORD NUMBER BITES

- 6.i Four small tables needed a total of forty nails to hold them together. How many nails were needed for each table?

Working Space:

Answer:

- 6.ii There were twenty four cakes arranged evenly on six plates. How many were on each plate?

Working Space:

Answer:

- 6.iii Five children caught two fish each. How many fish were caught in total

Working Space:

Answer:

NIFTY NUMBER BITES

A	B	C	D
4+5 +5	9+3 +7	8+4 +7	9+6 +5
4+9 +6	6+3 +9	7+4 +10	5+9 +8
11+ 4+4	13+ 6+0	9+2 +12	3+8 +8
12+ 4+8	7+7 +10	5+8 +4	7+6 +6

Colour the squares contain the same added total.



SKILLS NUMBER BITES

Can you solve these number frames? Shaded boxes have remainders.

×	1	2	3	4	5	6	7	8	9	10	11	12
1												
3												

Multiplying by 4 gives twice the answer to multiplying by 2.

×	1	2	3	4	5	6	7	8	9	10	11	12
2												
4												

Dividing by 4 gives half the answer to dividing by 2.

÷	10	22	32	4	16	20	8	24	28	40	80	12
2												
4												





OBJECTIVE 8: MONEY - ADDITION

WORD NUMBER BITES

7.i Loanna bought 3 books. They cost \$6, \$2 and \$4.. How much did they cost altogether?

Working Space:	Answer:
-----------------------	----------------

7.ii How much was the bill for a €4 coffee and a €10 cake?

Working Space:	Answer:
-----------------------	----------------

7.iii My money box contains 3 x £1 coins, 2 x £2 coins and a £10 note. How much, altogether is in my money box.

Working Space:	Answer:
-----------------------	----------------

NIFTY NUMBER BITES

All the rows and columns add up to 20.

Can you fill in the missing numbers?

5	3	6	0	
6				
3	5	8		2
4	6		5	3
2	3	2		2



SKILLS NUMBER BITES

Can you solve these number frames?

+	\$1	\$2	\$3	\$4	\$5	\$6	\$7	\$8	\$9	\$10	\$11	\$12
\$3												
\$4												

+	£1	£2	£3	£4	£5	£6	£7	£8	£9	£10	£11	£12
£2												
£7												

+	€1	€2	€3	€4	€5	€6	€7	€8	€9	€10	€11	€12
€8												
€9												



Do all cultures teach in the same way?



OBJECTIVE 8: MONEY - SUBTRACTION

WORD NUMBER BITES

8.i How much change will I get from a \$20 note if I spend \$15.50

Working Space:	Answer:
-----------------------	----------------

8.ii Nate was given €44 change from €50. How much had Nate spent?

Working Space:	Answer:
-----------------------	----------------

8.iii At the supermarket, out of £100 there was only £5.20 change. How much had been spent at the supermarket

Working Space:	Answer:
-----------------------	----------------

NIFTY NUMBER BITES

40	62	22
30	75	45
50	97	
60	83	
	59	29
20		48
70	101	
	66	56

The numbers in the middle section have something to do with the side numbers.

Can you work out what it is and fill in the missing numbers



SKILLS NUMBER BITES

Can you solve these number frames?

-	4¢	5¢	6¢	7¢	8¢	9¢	10¢	11¢	12¢	13¢	14¢	15¢
1¢												
4¢												

-	€5	€6	€7	€8	€9	€10	€11	€12	€13	€14	€15	€16
€2												
€5												

-	£10	£11	£12	£13	£14	£15	£16	£17	£18	£19	£20	£21
£5												
£10												



Does the knowledge we need change as our lives change?



OBJECTIVE 9 REVISION

WORD NUMBER BITES

9.i Jillian left for work at 7a.m. and won't be home until 5p.m. How long will Jillian be away from home?

Working Space:	Answer:
-----------------------	----------------

9.ii The council put up signs along the highway every 3km. How many signs are needed for 21 kilometres?

Working Space:	Answer:
-----------------------	----------------

9.iii Marianna baked three dozen muffins and put them into packs of six. How many packs could be made?

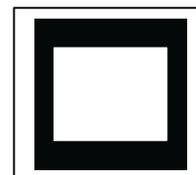
Working Space:	Answer:
-----------------------	----------------

NIFTY NUMBER BITES

Think of a number greater than 1.

64	80	48

All of these numbers can be divided by it without remainders.



What is it?

96	32	56

Write it in the centre box and the answers in the smaller boxes.



SKILLS NUMBER BITES

Can you solve these number frames?

+	1	2	3	4	5	6	7	8	9	10	11	12
1												
3												

-	5	6	7	8	9	10	11	12	13	14	15	16
2												
4												

×	1	2	3	4	5	6	7	8	9	10	11	12
2												
4												





OBJECTIVE 10: TIME PROBLEMS

WORD NUMBER BITES

10.i Eloise left home at 9:40 and arrived at work 25 minutes later. Work started at 10:00. how late was Eloise?

Working Space:	Answer:
-----------------------	----------------

10.ii The large hand of the clock is on 5 and the small hand is after the eleven. What is the correct time?

Working Space:	Answer:
-----------------------	----------------

10.iii I arrived at school 20 minutes late. The time is now 9:00 What time should I have been at school?

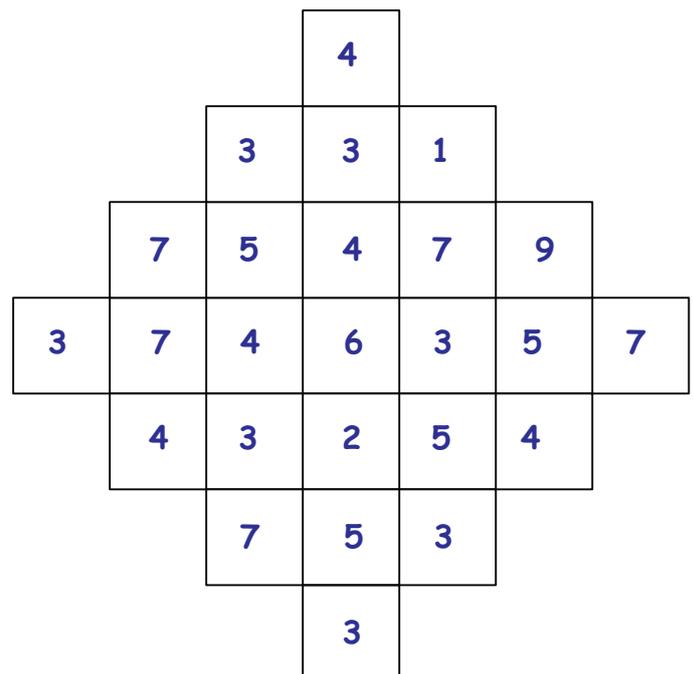
Working Space:	Answer:
-----------------------	----------------

NIFTY NUMBER BITES

Start from the middle and collect three more numbers to total 18.

How many ways can you find to do this?

Record the sums you find.





SKILLS NUMBER BITES

Can you solve these number frames?

+	3hr	9hr	8hr	5hr	10hr	6hr	0hr	7hr	11hr	4hr	2hr
3hr											
4hr											

—	6days	12days	13days	9days	12days	10days	4days	7days	5days	8days	11days
4 days											
5 days											

×	6min	4min	11min	7min	9min	12min	8min	10min	3min	0min	5min
3 min											
6 min											





OBJECTIVE 11: LENGTH PROBLEMS

WORD NUMBER BITES

11.i I ruled a rectangle with sides of 7cm and 11cm. How far is it around my rectangle?

Working Space:	Answer:
-----------------------	----------------

11.ii Looking at a ruler, can you see how many millimetres are equal to 6 centimetres?

Working Space:	Answer:
-----------------------	----------------

11.iii While training, Dale runs for 11km every day of the week except Tuesday. How many kilometrese is this?

Working Space:	Answer:
-----------------------	----------------

NIFTY NUMBER BITES

	1	2	3	4
A	36	18	96	72
B	99	45	35	27
C	63	28	81	55
D	54	48	35	90

Can you find the answer that won't fit?

B1	D4	C3	A4	C1	D1	A1	B2



SKILLS NUMBER BITES

Can you solve these number frames?

Prime Bite C - Exploring the Forest

+	1m	11m	21m	31m	41m	51m	61m	71m	81m	91m	101m	111m
2m												
4m												

+	4km	14km	24km	34km	44km	54km	64km	18km	28km	38km	48km	58km
3km												
6km												

-	10cm	16cm	26cm	14cm	19cm	15cm	13cm	19cm	18cm	20cm	11cm	12cm
4cm												
8cm												





OBJECTIVE 12: MASS PROBLEMS

WORD NUMBER BITES

12.i The letter weighed 35 grams and the parcel weighed 510 grams. How much did the two weigh together?

Working Space:	Answer:
-----------------------	----------------

12.ii The three babies weighed 6kg, 9kg and 6kg when they were a few days' old. Was their total weight over 20kg?

Working Space:	Answer:
-----------------------	----------------

12.iii Punnets of strawberries weigh 200 grams each. How many punnets are equal to 2kg?

Working Space:	Answer:
-----------------------	----------------

NIFTY NUMBER BITES

Can you put in the missing signs?

+ - × ÷

15		9		2	=	12
----	--	---	--	---	---	----

18		8		7	=	70
----	--	---	--	---	---	----

36		6		2	=	3
----	--	---	--	---	---	---

7		6		12	=	30
---	--	---	--	----	---	----



SKILLS NUMBER BITES

Can you solve these number frames?

+	1kg	2kg	3kg	4kg	5kg	6kg	7kg	8kg	9kg	10kg	11kg	12kg
1kg												
3kg												

-	4g	5g	6g	7g	8g	9g	10g	11g	12g	13g	14g	15g
2g												
4g												

Multiplying by 4 gives twice the answer as multiplying by 2.

x	1T	2T	3T	4T	5T	6T	7T	8T	9T	10T	11T	12T
2												
4												



Curiosity is the beginning of learning.



OBJECTIVE 13: CAPACITY PROBLEMS

WORD NUMBER BITES

- 13.i The petrol station ordered 10000 litres of petrol but the tanker had only 8000 litres. How many more litres are needed?

Working Space:	Answer:
-----------------------	----------------

- 13.ii I drink lots of milk, in fact 400ml every night. How many litres would I drink in 10 days?

Working Space:	Answer:
-----------------------	----------------

- 13.iii A can of soft drink contains 375ml. Would 3 cans be more or less than one litre?

Working Space:	Answer:
-----------------------	----------------

NIFTY NUMBER BITES

Start at one of the buttons on the top line and finish at **0**

There are 8 buttons to press.

R means right

L means left

D means down

U means up

0	3 U	2 D	1 L	3 R	4 D
1 D	3 D	2 D	1 L	2 L	3 D
1 U	4 R	2 D	2 U	2 D	2 L
3 U	3 R	2 L	2 D	2 L	3 U
1 R	4 R	4 U	3 U	2 U	2 L
OPEN THE SAFE.					



SKILLS NUMBER BITES

Can you solve these number frames?

+	1ml	12ml	22ml	32ml	42ml	52ml	62ml	72ml	82ml	92ml	102ml	112ml
5ml												
7ml												

+	5ml	15ml	25ml	35ml	45ml	55ml	65ml	75ml	85ml	95ml	105ml	115ml
2ml												
4ml												

+	8ml	18ml	28ml	38ml	48ml	58ml	68ml	78ml	88ml	98ml	108ml	118ml
4ml												
8ml												



Different skills require different knowledge.



OBJECTIVE 14: REVISING MEASUREMENT

WORD NUMBER BITES

14.i A large packet contains 8 small bags of sugar. If each bag of sugar weighs 2kg.how many kilograms does the large packet hold?

Working Space:	Answer:
-----------------------	----------------

14.ii If $\frac{1}{4}$ of a four litre tub of ice-cream has been eaten, how many litres are left in the tub?

Working Space:	Answer:
-----------------------	----------------

14.iii My watch says 10:55 How long must I wait for lunch which is due at 12:00?

Working Space:	Answer:
-----------------------	----------------

NIFTY NUMBER BITES

The numbers in each row are connected in some way.

Can you find the missing numbers and put them in their boxes?

A	16	5	6	5
B	19	7	4	8
C	22	12	5	
D	15	6		3
E	12	3	4	
F	14	1	7	
G		9	4	5
H	21		8	6



SKILLS NUMBER BITES

Can you solve these number frames?

+	52g	82g	22g	42g	92g	2g	62g	102g	12g	72g	112g	32g
2g	54g											
4g			26g									

-	55T	85T	5T	105T	35T	75T	95T	115T	15T	45T	65T	25T
3T		82T										
5T					30T							

Multiplying by 2 gives half the answer as multiplying by 2.

x	3m	6m	7m	8m	5m	10m	4m	2m	9m	11m	12m	20m
4	12m											
2	6m											



How important is learning a musical instrument?



OBJECTIVE 15: FRACTIONS

WORD NUMBER BITES

15.i If $\frac{1}{2}$ of the tank contains 1000L, what is the capacity of the entire tank?

Working Space:

Answer:

15.ii The car has travelled 25km and is $\frac{1}{3}$ of the way towards its destination. How long is the entire journey?

Working Space:

Answer:

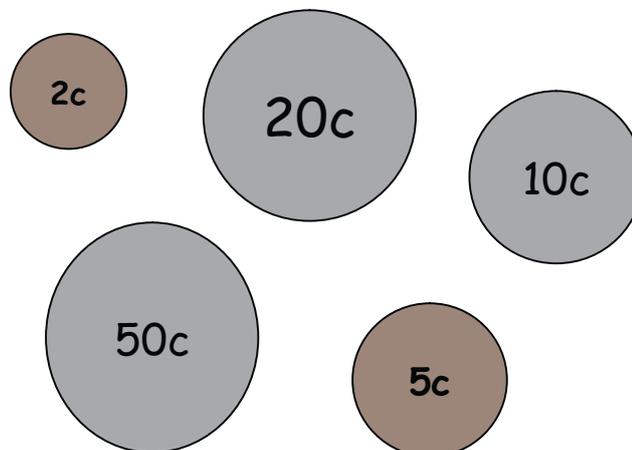
15.iii Thomas has cooked 30 sasusges, $\frac{1}{4}$ of what is needed for the b.b.q, How many more sausages need to be cooked?

Working Space:

Answer:

NIFTY NUMBER BITE

Using these coins, make \$1.36. You can use a coin more than once.





SKILLS NUMBER BITES

Can you solve these number frames?

	4	8	12	16	20	24	28	32	40	44	48	52
$\frac{1}{2}$ of												
$\frac{1}{4}$ of												

$\frac{1}{8}$ of a number is half the answer to $\frac{1}{4}$ of the same number

	8	24	32	40	4	16	72	80	0	48	88	56
$\frac{1}{4}$ of												
$\frac{1}{8}$ of												

$\frac{3}{8}$ of a number is 3 times greater than $\frac{1}{8}$ of the same number

	8	24	32	40	64	16	72	80	96	48	88	56
$\frac{1}{8}$ of												
$\frac{3}{8}$ of												



Some problems are just too big!



SKILLS NUMBER BITES

Can you solve these number frames?

+	\$57	\$87	\$27	\$47	\$97	\$7	\$67	\$107	\$17	\$77	\$117	\$37
\$2	\$59											
\$4			\$31									

-	£56	£86	£6	£106	£36	£76	£96	£116	£16	£46	£66	£26
£3		\$83										
£6					\$30							

+	€39	€69	€119	€9	€59	€99	€79	€29	€109	€49	€89	€19
€4		€73										
€8	€47											

Understanding money, where it comes from and where it goes, is essential for a happy life!





OBJECTIVE 17: GENERAL REVISION

WORD NUMBER BITES

17.i The time is 8:25. I need to be at school by 9.00. How many minutes do I have to get there in?

Working Space:	Answer:
-----------------------	----------------

17.ii A cricket team scored 55, 40 and 110 runs at the end of their first day's batting. What was the team's score at the end of the day?

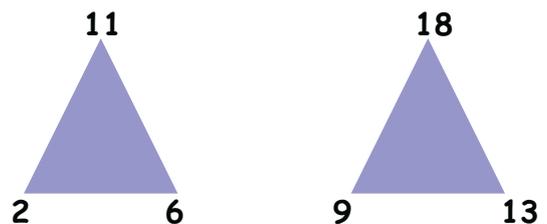
Working Space:	Answer:
-----------------------	----------------

17.iii Melinda weighed 32 kilograms last birthday and on this year's birthday, 39kg. What is the difference in these two weights

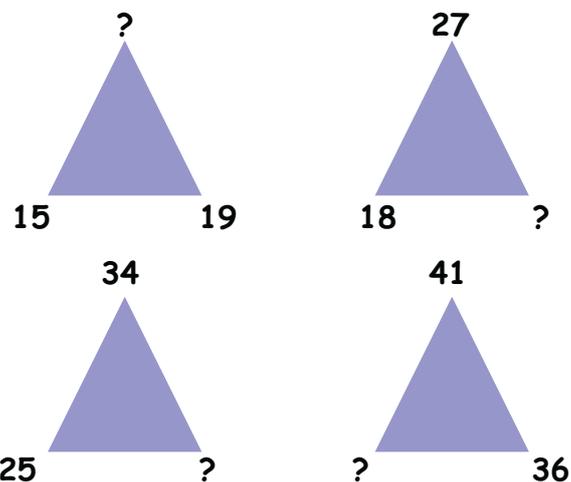
Working Space:	Answer:
-----------------------	----------------

NIFTY NUMBER BITES

Can you solve the pattern of the first triangle?



Use this to find the missing numbers of the other triangles.





SKILLS NUMBER BITES

Can you solve these number frames?

+	8	18	28	38	48	58	68	78	88	98	108	118
2	6											
4	4											

-	6	16	26	36	46	56	66	76	86	96	106	116
3	3											
5	1											





OBJECTIVE 18: GENERAL REVISION

WORD NUMBER BITES

18.i A carton of juice costs \$1.40. How much will three cartons cost?

Working Space:	Answer:
-----------------------	----------------

18.ii Lenni reads four books each week. How many weeks will forty-four books last?

Working Space:	Answer:
-----------------------	----------------

18.iii One box of coloured pencils costs \$9.95. How much will two boxes cost?

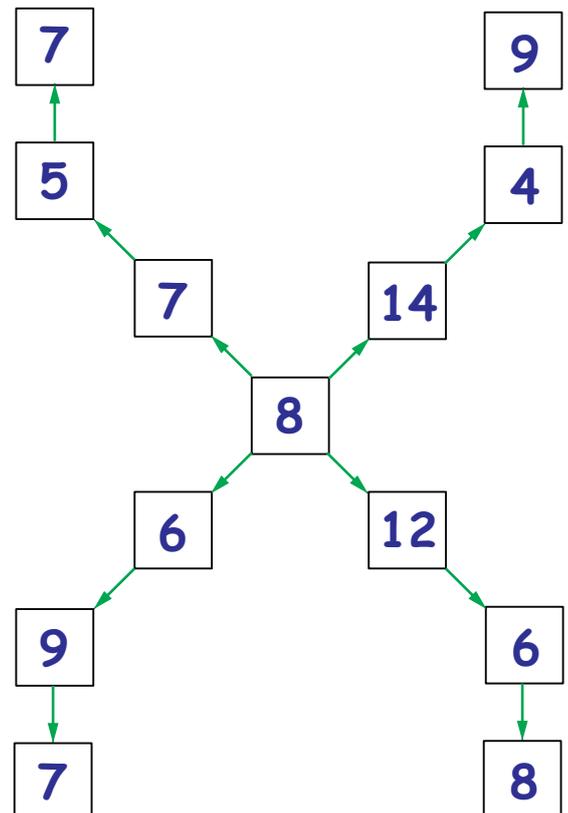
Working Space:	Answer:
-----------------------	----------------

NIFTY NUMBER BITES

Start in the middle and add to the end of the row.

Which line gives the greatest totals?

Record your four equations.





SKILLS NUMBER BITES

Can you solve these number frames?

-	8	18	28	38	48	58	68	78	88	98	108	118
2	6											
4	4											

Multiplying by 5 gives half the answer of multiplying by 10.

x	6	8	9	3	4	5	1	2	7	10	11	12
10	60											
5	30											

Dividing by 4 gives half the answer of dividing by 2.

÷	12	24	16	32	40	44	48	80	88	8	4	20
2	6											
4	3											



Cultural events are essential learning experiences!



OBJECTIVE 19: ADDITION

WORD NUMBER BITES

- 19.i Candida bought six bananas, four oranges and eight apples at the farmers' market. How many pieces of fruit did Candida buy?

Working Space:

Answer:

- 19.ii We put out our bins on Friday. We have nine houses on our side of the street, and eleven on the other. How many bins were ready for collection?

Working Space:

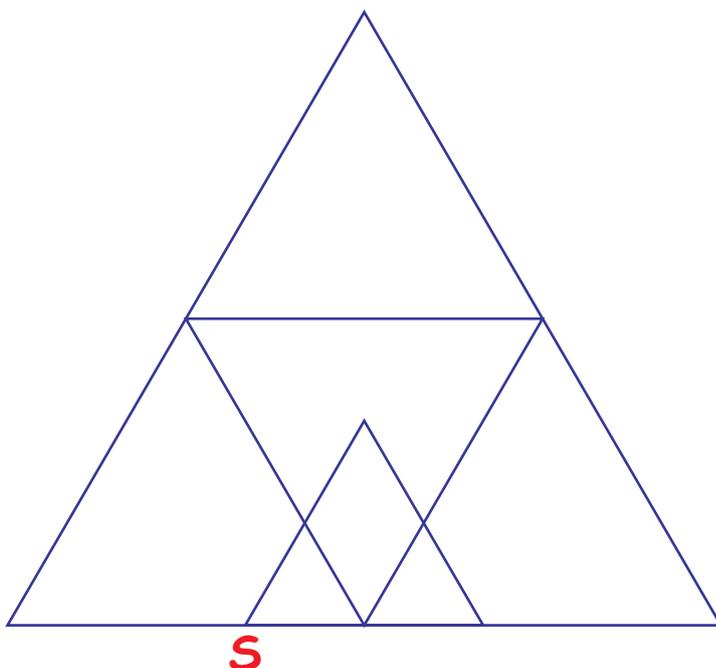
Answer:

- 19.iii The shop hired twenty films on Wednesday, and thirty on Thursday. How many films were hired over the 2 days?

Working Space:

Answer:

NIFTY NUMBER BITES



Trace over this shape without lifting your pencil or going over a line twice.

Start at **S**



SKILLS NUMBER BITES

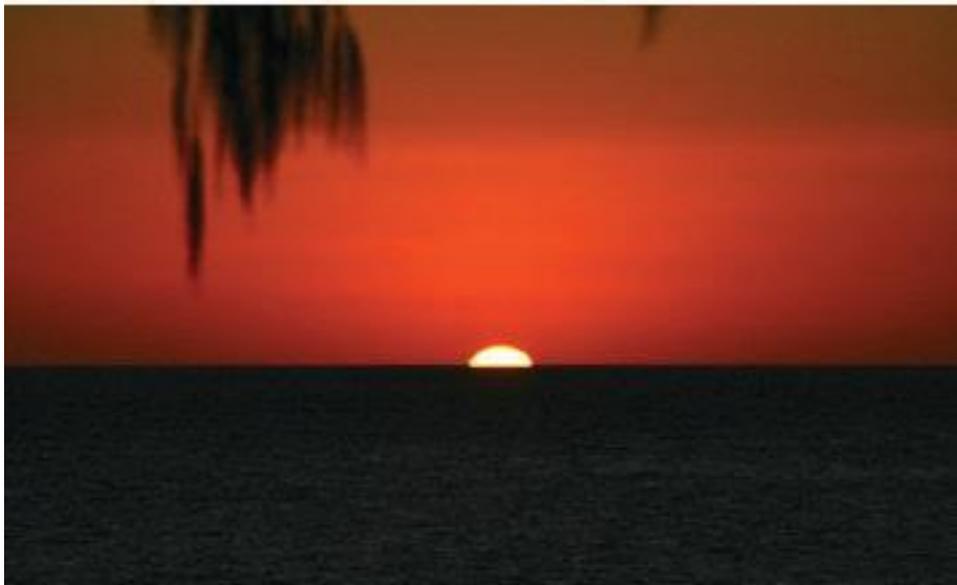
Can you solve these number frames?

Prime Bite C - Exploring the Forest

+	5	15	25	35	45	55	65	75	85	95	105	115
2	7											
5	10											

+	12	22	32	42	52	62	72	82	92	102	112	122
3	15											
5	17											

+	10	20	30	40	50	60	70	80	90	100	110	120
4	14											
6	16											



At the end of each day, what have you learnt?



OBJECTIVE 20: SUBTRACTION

WORD NUMBER BITES

- 20.i Dianne saw sixteen sheep and five new-born lambs. How many more sheep were there than lambs?

Working Space:

Answer:

- 20.ii At the end-of-year exam, seven out of thirteen students were absent with measles. How many students sat the exam?

Working Space:

Answer:

- 20.iii Last Wednesday, Kendra lost five marbles out of a bag of forty-five. How many marbles does Kendra still have?

Working Space:

Answer:

NIFTY NUMBER BITES

These numbers are in counting order. Can you complete them?

7	14	21				49	
2	4	8			64		
63	72		90			117	
3	5	8		17			
88			64				32



SKILLS NUMBER BITES

Can you solve these number frames?

-	51	8	21	41	91	121	61	101	11	71	111	31
2	49											
5	46											

-	54	84	124	104	34	74	94	114	14	44	64	24
3	51											
5	49											

-	33	63	113	123	53	93	73	23	103	43	83	13
4	29											
6	27											





OBJECTIVE 21: MIXED ADDITION & SUBTRACTION

WORD NUMBER BITES

- 21.i In our football game, three team members scored 2, 1 and 3 goals respectively. How many goals does this make altogether?

Working Space:

Answer:

- 21.ii Lilli had twelve stamps and sold three of them. How many stamps were not sold?

Working Space:

Answer:

- 21.iii The team needs 200 runs to win the match. They have already scored 175, how many more runs are needed?

Working Space:

Answer:

NIFTY NUMBER BITES

16	2	2	4
28	7	2	2
24	4	3	
36	3	6	
27	3		3
40		5	2
60	5	3	

Look at the first two rows.

Can you work out how the numbers are connected?

Use this information to fill in the missing numbers.



SKILLS NUMBER BITES

Can you solve these number frames?

+	1	2	3	4	5	6	7	8	9	10	11	12
1												
3												

-	10	12	13	14	15	16	17	18	19	5	6	4
2												
4												

+	1	2	3	4	5	6	7	8	9	10	11	12
12												
14												



Experimenting is an important learning tool.



OBJECTIVE 21: MIXED MULTIPLICATION

WORD NUMBER BITES

22.i Six teams of runners were needed with seven members in each team. How many runners were needed?

Working Space:	Answer:
-----------------------	----------------

22.ii There were six cakes on each of five plates. How many cakes were there?

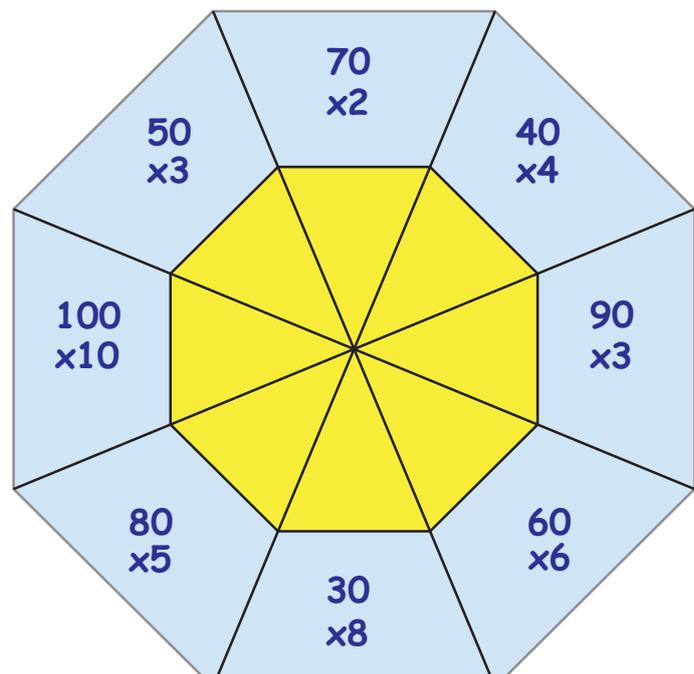
Working Space:	Answer:
-----------------------	----------------

22.iii There were ten cats. Each needed three tins of food per week. How many tins of food were needed?

Working Space:	Answer:
-----------------------	----------------

NIFTY NUMBER BITES

Complete the web by filling in each answer.





SKILLS NUMBER BITES

Can you solve these number frames?

x	5	8	2	4	9	11	6	10	1	7	12	3
1												
2												

Multiplying by 5 gives half the answer of multiplying by 10.

x	5	8	4	10	3	7	9	11	3	6	9	1
10	50											
5	25											

Multiplying by 6 gives twice the answer of multiplying by 3.

x	3	6	1	12	5	9	7	2	10	4	8	11
3	9											
6	18											





OBJECTIVE 23: DIVISION

WORD NUMBER BITES

23.i Barnaby wanted to buy a shirt for forty dollars. If \$10 was saved each week, how long would it take to save the money needed?

Working Space:	Answer:
-----------------------	----------------

23.ii Sixty horses were placed equally into three fields. How many horses were in each field?

Working Space:	Answer:
-----------------------	----------------

23.iii Stephanie has thirty spare football cards to give away equally to six friends. How many cards will each receive?

Working Space:	Answer:
-----------------------	----------------

NIFTY NUMBER BITES

Divide this box into four sections so that each adds up to the same total.

12	11	8	7
14	6	9	9
17	5	12	4
15	4	3	16



SKILLS NUMBER BITES

Can you solve these number frames?

÷	4	20	2	12	18	10	6	22	16	8	0	14
2	2											
1	4											

÷	45	15	30	33	105	135	55	33	25	20	63	21
3	15											
5	9											

÷	12	36	24	66	18	135	60	33	30	72	63	21
6	2											
3	4											





OBJECTIVE 24: MIXED MULTIPLICATION & DIVISION

WORD NUMBER BITES

24.i For the marathon, signs were posted every 5km. How many signs were needed for 20 kilometres? Signs were not needed at the Start or the Finish.

Working Space:	Answer:
-----------------------	----------------

24.ii If four dozen muffins were packed into groups of six, how many packs could be made?

Working Space:	Answer:
-----------------------	----------------

24.iii William must answer five questions every night of a school week. How many questions per week will this be?

Working Space:	Answer:
-----------------------	----------------

NIFTY NUMBER BITES

6 4 6 8 3 7 1 9 8 5 5 7 6 8 4 6
8 2 8 5 5 8 6 4 8 6 4 5 9 7 2 3
9 2 7 6 5 4 9 5 7 6 7 5 6 7 8 1
7 2 9 5 4 9 7 2 5 8 5 4 9 3 6 0

Here are lots of numbers. circle each group of three that add up to 18.

Circles may overlap.



SKILLS NUMBER BITES

Can you solve these number frames?

x	1	2	3	4	5	6	7	8	9	10	11	12
1												
3												

Dividing by 4 gives half the answer as dividing by 2

÷	12	24	32	44	56	16	72	64	4	20	28	8
2	6											
4	3											

Multiplying by 4 gives twice the answer as multiplying by 2.

x	10	12	3	4	5	6	7	8	9	20	2	1
2	20											
4	40											



Parents are day-by-day teachers.



OBJECTIVE 25: MONEY ADDITION

WORD NUMBER BITES

- 25.i Mariana bought three books. One cost €7 another, another cost €9 and the third cost €6. How much did they cost altogether?

Working Space:	Answer:
-----------------------	----------------

- 25.ii If tins of fruit cost \$7.50 each. How much will two tins cost?

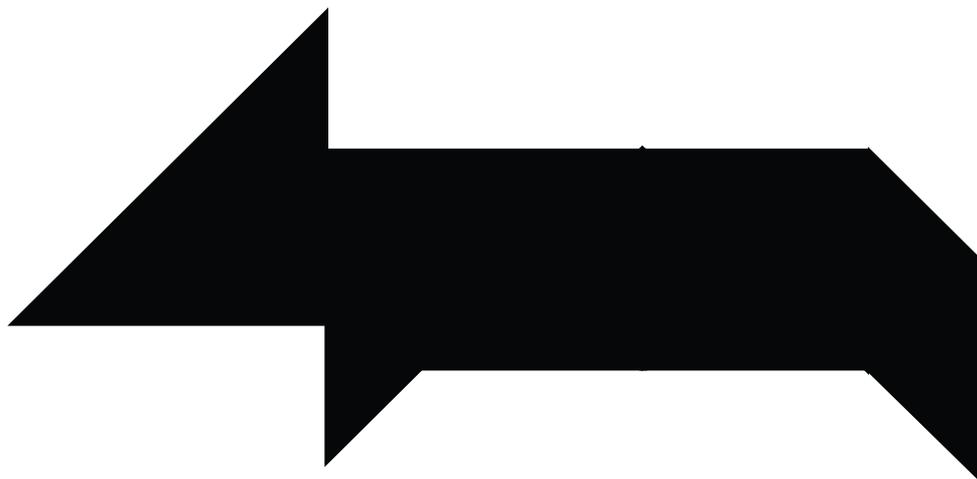
Working Space:	Answer:
-----------------------	----------------

- 25.iii Terri was given 20¢ for every correct answer on a history test. How much will this be for twelve correct answers?

Working Space:	Answer:
-----------------------	----------------

NIFTY NUMBER BITES

Using Tangram pieces can you make these shapes? (template at the end of Bite)





SKILLS NUMBER BITES

Can you solve these number frames?

+	\$6	\$4	\$7	\$2	\$9	\$5	\$11	\$1	\$0	\$3	\$8	\$12
\$6	\$12											
\$3	\$9											

+	\$9	\$12	\$34	\$5	\$8	\$33	\$21	\$52	\$79	\$46	\$68	\$19
\$8	\$17											
\$4	\$13											

+	\$12	\$42	\$39	\$83	\$12	\$41	\$57	\$6	\$2	\$55	\$22	\$78
\$15	\$27											
\$12	\$24											



Do plants have 'knowledge'?



OBJECTIVE 26: MONEY SUBTRACTION

WORD NUMBER BITES

26.i Petra has spent £25 out of a £110 allowance. How much is left?

Working Space:

Answer:

26.ii A shirt cost \$85. How much change was there from a \$100 note?

Working Space:

Answer:

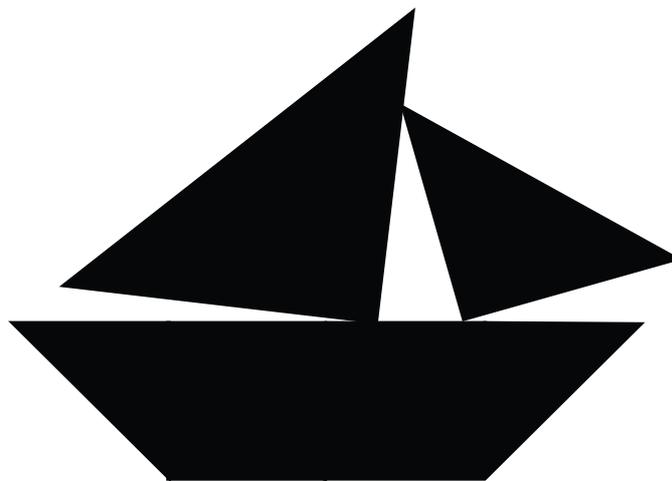
26.iii From a \$5 note I spent \$2.60. How much change did I get?

Working Space:

Answer:

NIFTY NUMBER BITES

Using Tangram pieces can you make these shapes? (template at the end of Bite)





SKILLS NUMBER BITES

Can you solve these number frames?

-	£11	£20	£7	£12	£18	£10	£6	£22	£16	£8	£32	£14
£2	£9											
£6	£5											

-	€9	€15	€22	€31	€18	€16	€24	€13	€16	€36	€51	€65
€5	€4											
€7	€2											

-	\$11	\$20	\$19	\$12	\$18	\$10	\$55	\$22	\$16	\$8	\$32	\$14
\$4	\$7											
\$8	\$3											





OBJECTIVE 27: FOUR OPERATIONS REVISION

WORD NUMBER BITES

- 27.i Barry's farm has 26 cows in a field, 15 in a shed and one waiting for the vet. How many cows are there?

Working Space:

Answer:

- 27.ii Lisanne sorted 150 stamps equally into five packets. How many stamps were then in each packet?

Working Space:

Answer:

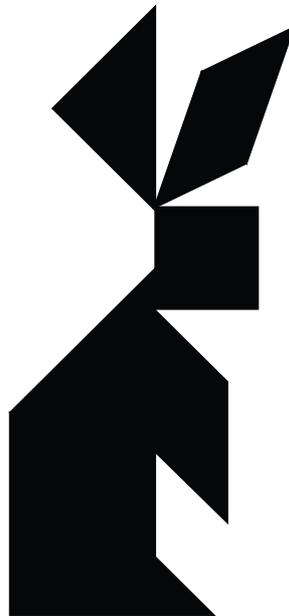
- 27.iii In one class there were 23 children, while in the other there were 26. How many children were there altogether?

Working Space:

Answer:

NIFTY NUMBER BITES

Using Tangram pieces can you make these shapes? (template at the end of Bite)





SKILLS NUMBER BITES

Can you solve these number frames?

+	1	2	3	4	5	6	7	8	9	10	11	12
1												
3												

-	11	12	13	14	15	16	17	18	9	10	11	12
2												
4												

×	1	2	3	4	5	6	7	8	9	10	11	12
2												
4												





OBJECTIVE 28: TIME PROBLEMS

WORD NUMBER BITES

- 28.i The clock on the wall read said 5:36 but my watch said 5:27 What is the time difference between the two times?

Working Space:

Answer:

- 28.ii If I could read 25 pages in one hour, how many pages could I read in three hours at the same speed?

Working Space:

Answer:

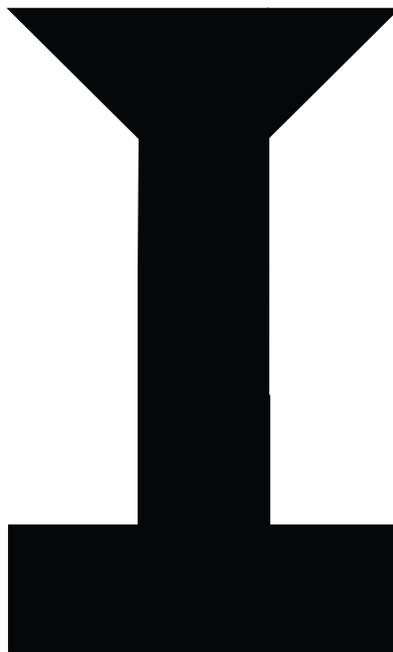
- 28.iii How many seconds are there in a minue?

Working Space:

Answer:

NIFTY NUMBER BITES

Using Tangram pieces can you make these shapes? (template at the end of Bite)





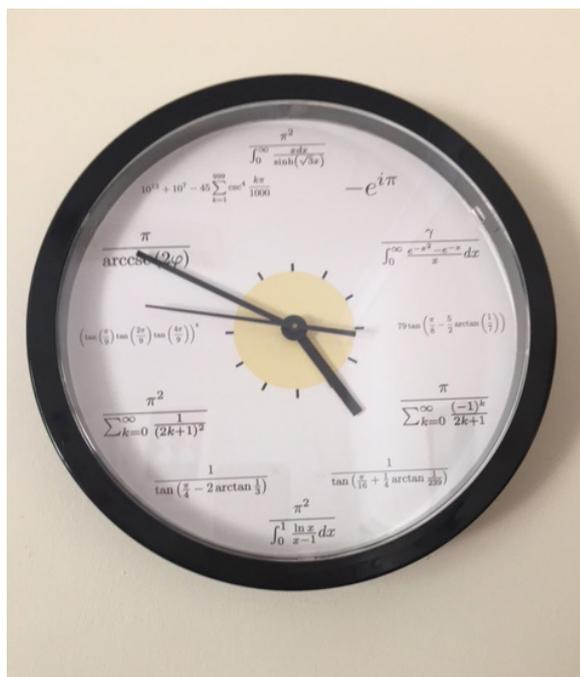
SKILLS NUMBER BITES

Can you solve these number frames?

+	12hr	20hr	36hr	27hr	21hr	16hr	28hr	30hr	32hr	8hr	15hr	24hr
3hr	15hr											
4hr	16hr											

-	20min	35min	40min	24min	12min	32min	28min	25min	16min	30min	48min	60min
4min	16min											
5min	15min											

×	4s	2s	8s	10s	0s	6s	1s	3s	7s	3s	9s	5s
4	16s											
8	32s											



Numbers can be written in many different ways.



OBJECTIVE 29: LENGTH PROBLEMS

WORD NUMBER BITES

29.i My rectangular lawn has sides of 8cm and 12cm. How far is it around the edge ?

Working Space:

Answer:

29.ii How many centimetres are there in nine metres?

Working Space:

Answer:

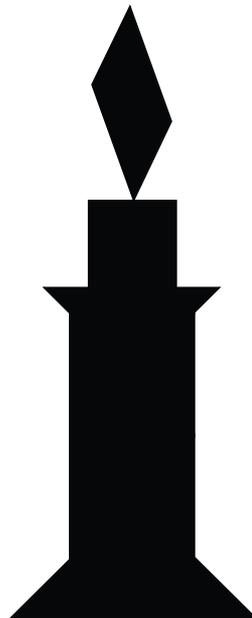
29.iii Our school bus uses one litre of petrol every 11km How many litres did it use when it travelled 99km?

Working Space:

Answer:

NIFTY NUMBER BITES

Using Tangram pieces can you make these shapes? (template at the end of Bite)





SKILLS NUMBER BITES

Can you solve these number frames?

×	6cm	2cm	10cm	5cm	7cm	11cm	0cm	8cm	12cm	9cm	3cm	1cm
2												

+	4km	8km	14km	22km	10km	0km	16km	20km	2km	18km	12km	6km
2km												

÷	20m	8m	12m	22m	10m	2m	16m	24m	6m	14m	18m	4m
2	10m											

-	8mm	14mm	22mm	16mm	10mm	4mm	24mm	18mm	12mm	2mm	20mm	6mm
2mm	6mm											





OBJECTIVE 30: MASS PROBLEMS

WORD NUMBER BITES

- 30.i A lucky goldminer found a 110g gold nugget and added it to the 265g found last week. How much gold is this altogether?

Working Space:

Answer:

- 30.ii A letter weighed 77g. How much less than 100g is this?

Working Space:

Answer:

- 30.iii Icy poles each weighed 70g each. How much did six weigh?

Working Space:

Answer:

NIFTY NUMBER BITES

Using Tangram pieces can you make these shapes? (template at the end of Bite)





SKILLS NUMBER BITES

Can you solve these number frames?

+	1g	2g	3g	4g	5g	6g	7g	8g	9g	10g	11g	12g
1g												
3g												

-	10T	12T	13T	14T	15T	16T	17T	18T	19T	20T	21T	22T
1T												
3T												

×	1kg	2kg	3kg	4kg	5kg	6kg	7kg	8kg	9kg	10kg	11kg	12kg
2												
4												



Why don't all months have the same number of days?



OBJECTIVE 31: CAPACITY PROBLEMS

WORD NUMBER BITES

- 31.i The petrol station ordered 20000 litres of petrol but the tanker only delivered 18000 litres. How many litres shortshort of the order was this?

Working Space:

Answer:

- 31.ii A small glass holds 120ml of medicine. How many glasses would empty a 600ml bottle?

Working Space:

Answer:

- 31.iii Over the three summer months, I used 1000L, 1500L and 500L of water. What was my total water usage?

Working Space:

Answer:

NIFTY NUMBER BITES

Using Tangram pieces can you make these shapes? (template at the end of Bite)





SKILLS NUMBER BITES

Can you solve these number frames?

×	2L	9L	5L	10L	7L	11L	8L	0L	12L	6L	3L	1L
3												

÷	6ml	15ml	21ml	0ml	33ml	9ml	18ml	24ml	30ml	3ml	27ml	12ml
3												

÷	15L	21L	3L	36L	12L	27L	30L	6L	18L	33L	9L	24L
3												

-	18mL	9mL	21mL	30mL	36mL	6mL	15mL	24mL	33mL	12mL	3mL	27mL
3mL												





OBJECTIVE 32: REVISING MEASUREMENT

WORD NUMBER BITES

- 32.i A square lawn had sides of 25m. How much edging will be needed to go around the square?

Working Space:

Answer:

- 32.ii My water tank holds 2000L. After watering my garden for a month, it was down to 400L. How much water had I used?

Working Space:

Answer:

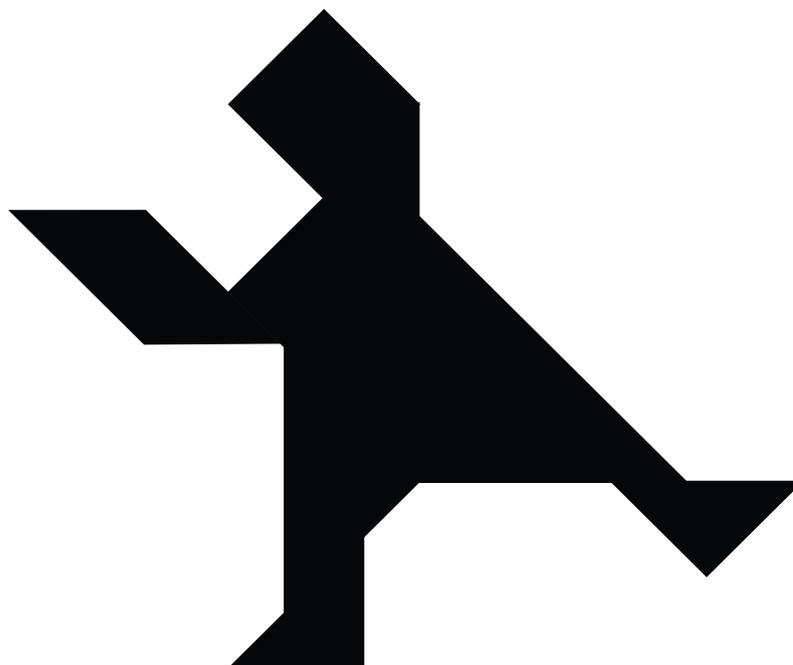
- 32.iii It is 11:55.am. How long must I wait for my flight if it leaves at 2:00pm?

Working Space:

Answer:

NIFTY NUMBER BITES

Using Tangram pieces can you make these shapes? (template at the end of Bite)





SKILLS NUMBER BITES

Can you solve these number frames?

Prime Bite C - Exploring the Forest

+	1s	2s	3s	4s	5s	6s	7s	8s	9s	10s	11s	12s
1s												
3s												

-	4T	5T	6T	7T	8T	9T	10T	11T	12T	20T	21T	22T
2T												
4T												

×	1hr	2hr	3hr	4hr	5hr	6hr	7hr	8hr	9hr	10hr	11hr	12hr
2												
4												



Do rainbows only appear in the sky?



OBJECTIVE 33: FRACTIONS

WORD NUMBER BITE

33.i If $\frac{1}{2}$ of my savings is \$550, How uch is my savings?

Working Space:

Answer:

33.ii Jonni needs to pay $\frac{1}{4}$ of his £800 earnings to a flatmate for rent. How much needs to be paid?

Working Space:

Answer:

33.iii $\frac{1}{3}$ of a cup of tea contains 200ml. How much is there in a full cup?

Working Space:

Answer:

NIFTY NUMBER BITES

Using Tangram pieces can you make these shapes? (template at the end of Bite)





SKILLS NUMBER BITES

Can you solve these number frames?

+	1	2	3	4	5	6	7	8	9	10	11	12
1												
3												

+	1	2	3	4	5	6	7	8	9	10	11	12
2												
4												

Prime Bite C - Exploring the Forest





OBJECTIVE 34: MONEY

WORD NUMBER BITES

- 34.i After shopping three friends found they had spent £45, £32 and £23. How much had they spent altogether?

Working Space:

Answer:

- 34.ii The hotel room cost €200. If the bill was equally shared between four friends, how much did they each pay?

Working Space:

Answer:

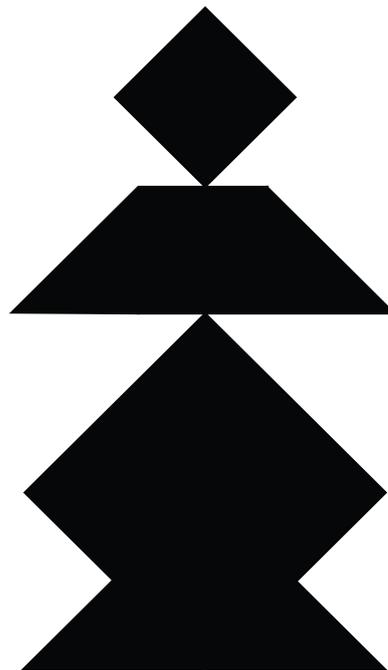
- 34.iii Denise and Amanda equally shared the \$150 cost of a meal. How much did they each pay?

Working Space:

Answer:

NIFTY NUMBER BITES

Using Tangram pieces can you make these shapes? (template at the end of Bite)





SKILLS NUMBER BITES

Can you solve these number frames?

-	£13	£22	£6	£32	£18	£10	£6	£22	£16	£8	£32	£14
£5	£8											
£3	£10											

+	€9	€15	€22	€31	€18	€16	€24	€13	€16	€36	€51	€65
€4	€4											
€2	€2											

	\$11	\$20	\$19	\$12	\$18	\$10	\$55	\$22	\$16	\$8	\$32	\$14
x 2	22											
x 1	\$3											

Sometimes we learn together.





OBJECTIVE 35: GENERAL REVISION

WORD NUMBER BITES

35.i The shopping cost €34, € 12 and €5. What was the total for the shopping?

Working Space:

Answer:

35.ii Out of 100 apples, 22 were damaged by the storm. How many were saved?

Working Space:

Answer:

35.iii \$300 was spent painting three identical rooms. How much did each room cost to paint?

Working Space:

Answer:

NIFTY NUMBER BITES

Using the Tangram pieces (template at the end) can you make these shapes?





SKILLS NUMBER BITES

Can you solve these number frames?

+	8	18	28	38	48	58	68	78	88	98	108	118
2	10											
4	12											

-	6	16	26	36	46	56	66	76	86	96	106	116
3	3											
5	1											



... and sometimes alone!



OBJECTIVE 36: GENERAL REVISION

WORD NUMBER BITES

36.i How many 200ml drinks can be poured from a 3 litre pot?

Working Space:

Answer:

36.ii If each of the four packets weighs 150g, what is their total weight?

Working Space:

Answer:

36.iii Dominic has grown 25cm in the last year and is now 1.15m, what was last year's height?

Working Space:

Answer:

NIFTY NUMBER BITES

Using the Tangram pieces (template at the end) can you make these shapes?





SKILLS NUMBER BITES

Can you solve these number frames?

×	8	18	28	38	48	58	68	78	88	98	108	118
2	16											
4	32											

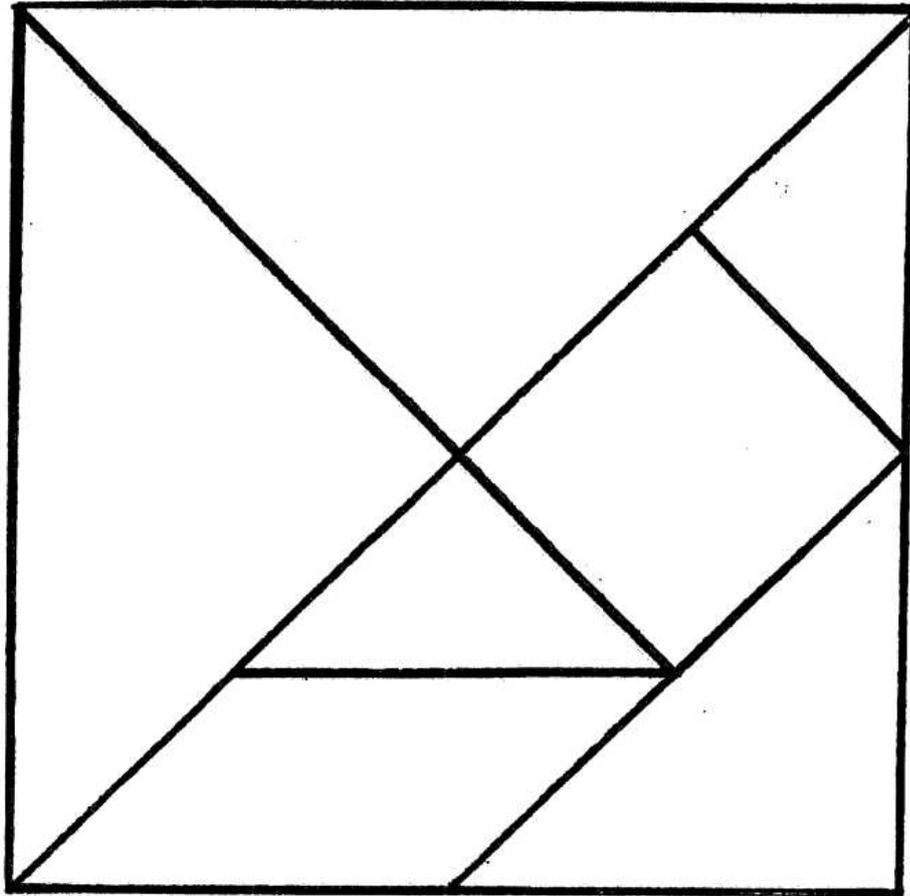
Shaded squares have remainders.

÷	6	16	26	36	46	56	66	76	86	96	106	116
2	3											
5	1r1											



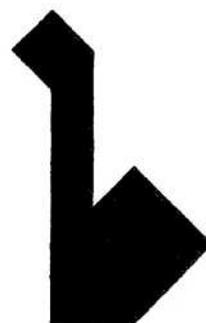
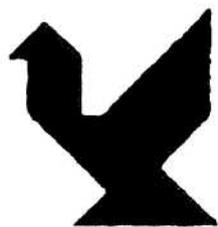


TEMPLATE FOR TANGRAMS



There may be more than one way to form the tangram pictures.

Here are some more to try.



Maybe create some of your own.

