Level 10

Card 1

1. **Counting**

a) 40, 50, 60, …………………….…....................130

b) 300, 400, 500, ………………………………….…1000

c) 26, 24, 22…………………………………………………10

2. **Place value**

a) 4 + 5 = 9

   14 + 5 =

   24 + 5 =   Keep the pattern going to 69

b) Use sticks for these:

   74 = □ tens + □ ones

   74 = (□ x10) + (□ x 1)

   Now do the same for:

   53 =

   53 =

Level 10

Card 2

1. **Doubling and halving**

a) Double 8

b) Halve 8

c) Double 14

d) Halve 14

2. **Place value**

86 = 80 + 6

   = 8 tens + 6 units

   = (8 x 10) + (6 x 1)

Now do the same for:

a) 92

b) 35

3. Make the smallest number possible from these three digits: 7, 1, 6

4. 467 = □ hundreds, □ tens and □ ones

Level 10

Card 3

1. Counting

a) Count by odd numbers:

7, 9, ………………………………………………………………21

b) Count backwards:

36, 35, 34………………………………………………………24

2. Times Tables

Use your times tables for these:

4 x 2 =   8 x 2 =

6 x 2 =   9 x 2 =

3 x 2 =   5 x 2 =

3. Brackets first

a) 9 + (6 + 2) =

b) 8 + (7 − 2) =

c) 12 − (4 − 0) =

Level 10

Card 4

1. Counting

a) Count by tens:

20, 30, ………………………………………………………….120

b) Count by twos:

6, 8, …………………………………………………………….28

2. **Times and division are opposites.** (Use sticks or counters)

4 x 3 = 12   ………..   12 ÷ 3 = □

7 x 2 = 14   ………..   14 ÷ □ = □

16 ÷ 4 = □   …………   □ x □ = □

18 ÷ 2 = □   ………….   □ x □ = □

3. Plus and minus are opposites.

7 + 5 = □   ………….   12 - □ = 5

8 + 6 = □   ………….   □ − 6 = □

20 − 5 = □   ………….   □ + □ = □

Level 10

Card 5

1. Counting

a) 3, 6, 9, ………………………………………………….30

b) Write numbers in words from 10 to 100, counting by tens.

2. Re-naming

58 = 50 + 8

58 = 40 + 18   Keep the pattern going

58 = 30 + □

58 = 20 + □

58 = □ + □

Now do the same for 62.

3. Be creative!

a) Make as many equations as you can to equal 25. Use +, -, x, ÷

b) Now do the same for 16.

Level 10

Card 6

1. Counting

a) 27, 37 …………………………………………………..127

b) 98, 88 ……………………………………………………. 8

2. Times Tables

4 x 5 =	6 x 5 =
8 x 5 =	5 x 5 =
3 x 5 =	9 x 5 =

3. Zero

6 + 0 =	13 = 0 =
9 x 0 =	20 ÷ 0 =

4. Number facts of 20

3 + □ = 10	3 + □ = 20
8 + □ = 10	8 + □ = 20
5 + □ = 10	5 + □ = 20

Level 10

Card 7

1. Counting

a) 130, 128, 126 ……………………………………………… 98

b) 50, 45, 40 ……………………………………………. 5

2. Brackets first

a) $26 - (15 - 11) = \square$

b) $7 = (3 \times 8) - \square$

c) $(10 + 5) + \square = 20$

d) $(7 \times 2) + (8 \times 3) = \square$

3. Double these:

a) 14   b) 11

c) 20   d) 15

4. Halve these:

a) 20   b) 18

c) 12   d) 1

Level 10

Card 8

1. Counting

a) 3, 6, 9 …………………………………………………..36

b) 5, 10, 15 ……………………………………………… 60

2. Times Tables

7 x 3 =   4 x 3 =

9 x 3 =   3 x 3 =

12 x 3 =   8 x 3 =

3. Fractions

a) Draw a square. Divide it in half. Colour ½.

b) Draw a square. Divide it into quarters. Colour ¼.

c) Draw another square. Divide it into quarters. Colour ½.

d) How many quarters make a half?

4. Ben has 30 cents and he spends 15 cents. How much does he have left?

Level 10

Card 9

1. Write the word for the missing number:

3, 5, □, 9

2. How many must be taken away from 5 to equal 3?

3. David is 3 years old. Sam is 7 years older. How old is Sam?

4. Tim has 50 cents, 20cents and 5 cents. How much does he have altogether?

5. What time is it:

a)

b)
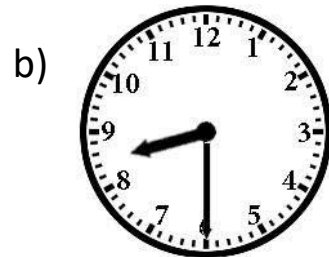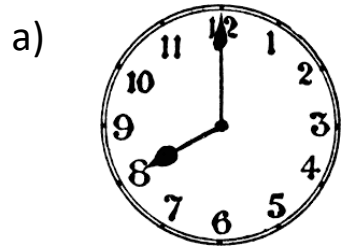
6. 3 sets of 4 pens. How many pens?

7. How many twos in 16?

Level 10

Card 10

1. **Counting**

a) Count by twos from 46 to 64

b) Count by fives from 35 to 60

2. **Use the number line or number chart** (up to to 20):

a) $15 + \square = 19$ b) $7 + \square = 15$

c) $12 + \square = 16$ d) $2 + \square = 16$

e) $\square + 8 = 13$ f) $\square + 14 = 20$

g) $\square + 2 = 11$ h) $\square + 9 = 19$

3. **Use the number line of number chart**

a) $16 - \square = 4$ b) $13 - \square = 7$

c) $11 - \square = 5$ d) $20 - \square = 16$

e) $\square - 4 = 3$ f) $\square - 8 = 5$

g) $\square - 10 = 10$ h) $\square - 15 = 5$

4. Ten plus eight minus seven =

Level 10

Card 11

1. Counting

a) Write the odd numbers from 13 to 25

b) Write the even numbers from 86 to 110

2. Place value

a) 7 tens and 3 ones = 70 + 3 = 73

b) 4 tens and 2 ones =

c) 6 ones and 4 tens =

d) 9 ones and 8 tens =

3. Say it another way

a) **9** + 3 = 12 ………………….. (4 + □) + 3 = 12

b) **12** – 4 = 8 ………………….. (□ - □) – 4 = 8

c) **15** + 3 = 18 ……………….. (□ x □) + 3 = 18

d) **4** – 2 = 2 …………………… (□ ÷ □) – 2 = 2

4. How many 10s make 50 cents?

Level 10

Card 12

1. Times tables

a) 3 x 5 = □ …………………….. □ ÷ □ = □

b) 6 x 5 = □ …………………….□ ÷ □ = □

c) 3 x 5 = □ …………………….□ ÷ □ = □

d) 8 x 5 = □ …………………….□ ÷ □ = □

e) 7 x 5 = □ …………………….□ ÷ □ = □

2. Fractions

a) Draw a circle. Divide it into three equal parts. Colour ⅓.

b) Draw another circle. Divide it into three equal parts. Colour ⅔.

c) Draw 9 pens. Draw a circle around ⅓ of the pens.

3. Make an equation from this problem:

A man had six cats. He got five more. Then two ran away. Now he has nine cats.   □ + □ - □ = □
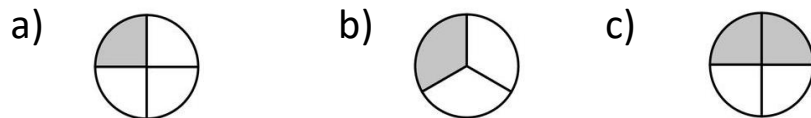
Level 10

Card 13

1. **Double these:**

3	2	6	8	9	5	4	7
6							

2. **Halve these:**

6	4	10	12	20	2	8	14
3							

3. **Write the fraction:**

a)   b)   c)

4. 92 = 90 + 2

= 9 tens + 2 units

= (9 x 10) + (2 x 1)

Now do the same for 67

Level 10

Card 14: Test

a) 45, 40 ……………………………………………….. 15

b) 8 tens and 6 ones = □

c) a) Double 9   b) Halve 16

d) 162 = □ hundreds, □ tens and □ ones

e) 15 − (7 + 4) = □

f) 3 + 8 − 4 = □

g) (5 x 2) + (2 x 3) = □

h) 16 ÷ 2 = □

i) 14 + □ = 20

j) Write 4 equations that equal 12. Use +, -, x, ÷

k) 17 birds were on a tree. 8 flew away. How many left?

l) What is the time?
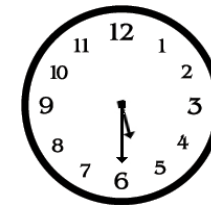
Score: /15 (4 points for j)

Level 11

Card 1

1. Counting

   a) 100, 150, 200, 250, 300, ………….. to 600

   b) 520, 540, 560, ………………………. to 700

   c) 900, 890, 880, 870, ………………to 680

2. Place value

   a) 3 x 100 + 2 x 10 + 4 = □

   b) 3 x 10 + 8 x 1 + 4 x 100 = □

   c) 6 x 1 + 3 x 100 + 4 x 10 = □

3. Addition (extended notation)

   a) 26 + 33 = (20 + □) + (30 + □)

           = (20 + 30) + (6 + 3)

           = □ + □

           = □

   b) Set out the same way: 52 + 46

Level 11

Card 2

1. Counting

   a) 336, 337, 338,…………………….. to 342

   b) 490, 489, 488, ……………………. to 484

   c) 510, 520, 530, …………………. to 570

2. Place value

   a) 627 = □ hundreds + □ tens + □ ones

   b) 359 = 300 + □ + □

   c) 427 = □ + 20 + □

3. Addition (extended notation)

   a) 26 + 39 = (20 +6) + (30 + 9)

           = (20 + 30) + (6 + 9)

           = (□) + (10 + □)

           = (□) + (□) = □

   b) Set out the same way: 56 + 39

Level 11

Card 3

1. **Counting:** keep the pattern going…

a) 3, 8, 13, ……………………………….. to 33

b) 621, 521, 421 ………………………. to 21

2. Say it another way

a) $12 - 4 - 4 - 4 = 12 - (\square \times \square)$

b) $15 - 3 - 3 - 3 = 15 - (\square \times \square)$

3. **Equations**

a) $12 \div 4 + 3 \times 5$

$= \quad \square \quad + \quad \square \quad = \quad \square$

b) Do the same for: $7 \times 2 + 12 \div 4$

4. **Create and equation** to equal 25 using +, x, -

$25 = 10 + 5$

$25 = (\square \times \square) + (\square - \square)$

Create an equation to equal 32 using +, x, -

Level 11

Card 4

1. **Counting**

a) 10, 13, 16, …………………………… to 31

b) 265, 270, 275 ………………………… to 295

2. a)Double 8

b)Half of 18

3. **Odds and evens**

a) The odd number between 145 and 149 is $\square$

b) The even number half way between 80 and 100 is $\square$

4. a) Write in words: 125

b) Write the figures for the number that is one more than 999.

c) Choose the smallest number and write it in words: 765, 792, 780, 763, 778

d) What is the largest number? 620, 626, 606, 260, 602

Level 11

Card 5

1. Quick addition

a) 6 + 3 =

b) 8 + 5 =

c) 9 + 4 =

2. Multiplication

a) 20 x 3 =

b) 40 x 2 =

c) 30 x 5 =

3. Three times table:

a) 7 x 3 =

b) 9 x 3 =

c) 4 x 3 =

d) 5 x 3 =

4. **Using your five times table,** how many
   fives in: a) 15   b) 25 c) 35 d) 45 e) 55

Level 11

Card 6

1. Count using your times tables

a) 5, 10, 15, ……………………………….60

b) 3, 6, 9, …………………………….… 36

2. Addition and subtraction

a) 6 + 3 = □   60 + 30 = □   600 + 300 = □

b) 6 + 7 = □   60 + 70 = □   600 + 700 = □

c) 14 – 6 = □   140 – 60 = □ 1400 – 600 = □

d) 12 – 5 = □   120 – 50 = □ 1200 – 500 = □

e) 6   60   600
    +4   +40   +400

    ___   _____   _____

f) 9   90   900
    - 4   - 40   - 400

    ___   _____   _____

g) 200 + 40 + 6 = □

h) 500 + 30 + 7 = □

Level 11

Card 7

1. Write a number of three figures where:

a) 5 has the value of 50

b) 3 has the value of 300

c) 7 has the value of 70

d) 9 has the value of 900

2. One more than:

a) 856

b) 278

c) 999

3. Ways to talk about addition

a) What is 30 more than 20?

b) To 23 add 7

c) What is the total of 400 and 300?

4. $900 - 300 - 50 - 5 = \square$

Level 11

Card 8

1. Number facts of 20

$10 + \square = 20$	$16 + \square = 20$
$11 + \square = 20$	$17 + \square = 20$
$12 + \square = 20$	$18 + \square = 20$
$13 + \square = 20$	$19 + \square = 20$
$14 + \square = 20$	$20 + \square = 20$
$15 + \square = 20$	

2. Extended notation

a) $34 + 48 = (30 + \square) + (40 + 8)$

$= (30 + \square) + (4 + 8)$

$= \square + 12$

$= 70 + (\square + 2)$

$= (70 + \square) + 2$

$= \square + 2 \quad = \square$

b) **Now do the same for 29 + 73**

Level 11

Card 9

1. **Place value**

    a) 30 + 200 + 1 =

    b) 5 + 40 + 600 =

    c) 400 + 4 + 80 =

2. **Multiplication and division**

    a) 6 x 3 = □   60 x 3 = □   600 x 3 = □

    b) 3 x 5 = □   30 x 5 = □   300 x 5 = □

    c) 6 sets of 20 =

    d) 4 sets of 30 =

    e) 6 ÷ 3 = □   60 ÷ 3 = □   600 ÷ 3 = □

    f) 10 ÷ 5 = □   100 ÷ 5 = □   1000 ÷ 5 = □

    g) 20 children, how many hands?

    h) 20 children, how many fingers?

3. **Create six equations** to equal 24. Use x, ÷, +, -

Level 11

Card 10

1. **Odds and evens**

    a) Write the odd numbers between 300 and 316.

    b) Write the even numbers between 591 and 619

2. **Name the fraction of the shaded part.**
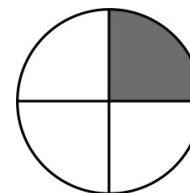
    a)   b)
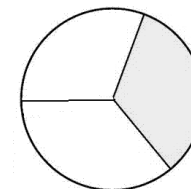
3. **Money**

    a) How much change from $2 if I buy a pen for $1.70?

    b) I have six !0 cent pieces and one twenty cent piece. How much altogether?

4. **Measurement**

    Draw a line a) 10 cm long   b) 15 cm long

Level 11

Card 11

1. **Number tables**

+	42	10	0	8	55	12
9						

_	20	35	59	17	51	90
10						

x	3	2	4	7	1	10
10						

2. **Less than < or greater than >**
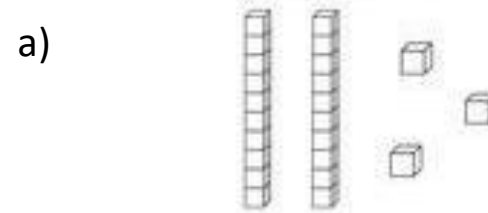
a) 679 □ 682

b) 954 □ 978

c) 329 □ 315

3. **Draw these shapes:** a)square b) rectangle
   c) triangle d) oval e) pentagon f) hexagon

Level 11

Card 12

1. **How many in each group?**

a)

b)

c)
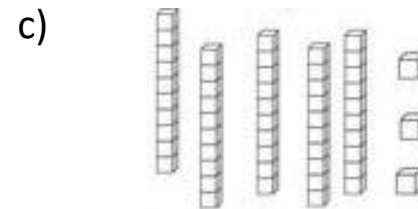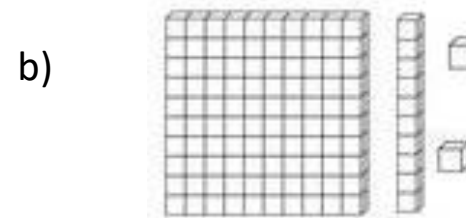
2. **Draw a graph** to show: 5 children like the colour red, 12 like green, 8 like yellow

3. **Draw clocks** to show **a)** 5 past 10 **b)** 20 to 7

Level 11

Card 13

1. **Number charts**

a) Subtract 4

9	11	6	4	8	5	10	23	82	19

b) Subtract 5

10	7	15	5	12	6	11	57	94	33

c) Add 9

12	25	36	52	94	125	67	243	88	99	121

2. **Problem solving**

   a) Paul weighs thirty-two kilograms and Peter weighs forty kilograms. How much heavier is Peter than Paul?

   b) What is the cost of 3 pencils at 50 cents each?

Level 11

Card 14   **Test** (one point per question for a score out of 10)

a) 250, 200, 350, ……………….. 1000

b) 8, 11, 14, …………………..32

c) 5 x 10 + 9 x 1 + 3 x 100 = □

d) 27 + 32 = (20 + □) + (□ + 2)

   = (□ + □) + (□ + □)

   = □ + □ = □

e) 25 + 49 = (□ + □) + (□ + □)

   = (□ + □) + (□ + □)

   = (□ + □) + (10 + □)

   = □ + □ = □

f) 5 + 9 = □   50 + 90 = □   500 + 900 = □

g) Write the number that is 2 more than 999.

h) Write the odd numbers between 720 and 734.

i) How much is the 7 worth in 976?

j) How many sides altogether on 6 triangles?

Level 12

Card 1

1. Counting

a) 748, 749, 750

....760

b) 897, 896, 895,

....888

2. Place value

a) 1,630 = □ thousands, □ hundreds, □ tens, □ ones

b) 2,478 = □ thousands, □ hundreds, □ tens, □ ones

c) How many hundreds make 1000? (Count in hundreds from 100 to find out.)

3. Write in words

a) 1024

b) 5890

4. Substitute for the 14

$2 \times 7 - 4 = 10$ ½ of □ − 4 = 10

□ + □ − 4 = 10   □ - □ − 4 = 10

Level 12

Card 2

1. Opposites

a) $6 \times 3 = 18$ 18 ÷ □ = □

b) $7 + 9 = 16$ 16 - □ = □

2. Extend

3,264 = 3 thousand + 2 hundred + 6 tens = 4 ones

= 3,000 + 2000 + 60 + 4

= (3 x 1,000) + (2 x 100) + (6 x 10) + (4 x 1)

Now do the same for 5,792

3. Find the missing number

a) $2 \times 7 - □ = 10$

b) $10 + □ = 2 \times 7$

c) $12 ÷ 3 = 2 + □$

d) $5 \times 5 = 30 - □$

4. Write the 4 times table.

Level 12

Card 3

1. Counting

a) 646, 650, 654, ………………………… 674

b) 731, 628, 625, ………………………… 610

2. Subtraction

14	36	98
-11	- 25	- 4
_____	_____	_____

3. Addition

264 = 200 + 60 + 4

+ 323 = 300 + 20 + 3

=

Set out these the same way:

526 + 353

245 + 714

107 + 362

Level 12

Card 4

1. Counting

a) 850, 900, 950, …………………………….. 1,200

b) 980, 982, 984 ……………………………. 1,002

2. Double 8   Double 80

3. Half of 18   Half of 180

4. Choose the smallest number and write it in words:

765, 792, 780, 763, 778

5. Multiplication

3 x 21 = 3 x (20 + 1)

= (3 x 20) + (3 x 1)

= □   +   □

= □

Now do the same for 2 x 42

6. Ways of talking about subtraction

What is the difference between 650 and 50?

What is 250 less than 400?

Level 12

Card 5

1. Quick Addition

a) 595 + 7

b) 246 + 5

c) 67 + 9

d) 125 + 9

2. Addition using bridging

$$268 = 200 + 60 + 8$$
$$+\ 325 = 300 + 20 + 5$$

$$593 + 500 + 80 + 13$$

Now break 13 down to 10 + 3

= 593 + 500 + 80 + 10 + 3 = □

Now do the same for 427 + 539

3. Make equations for these:

a) 20 children took off their shoes. How many shoes?

b) 60 coloured pencils shared between 10 children.

Level 12

Card 6

1. Quick subtraction

a) 424 – 6

b) 1000 – 4

c) 989 – 10

d) 542 – 4

2. Vertical subtraction

54	96	165
-31	- 45	- 134
_____	_____	_____

3. **Fractions:** Use your times tables

a) $\frac{1}{5}$ of 30 =   (How many fives in 30)

b) $\frac{1}{3}$ of 15 =

c) $\frac{1}{2}$ of 42 =

d) $\frac{1}{10}$ of 20 =

e) $\frac{1}{4}$ of 28

Level 12

Card 7

1. Write the number for:

a) 7 x 1000 + 6 x 100 + 3 x 10 + 2 x 1

b) 5 x 100 + 3 x 1000 + 4 x 1 + 2 x 10

c) 3 x 1 + 5 x 10 + 6 x 1000 + 5 x 100

2. Write equations for these:

a) How many children were on 3 buses? There were 20 on the first bus, 15 on the second bus and 10 on the third bus.

b) Five plates of mangoes each contain six mangoes.

c) There are 39 children in the class but five them are away today.

d) Mum bought fifteen bananas and asked five children to share them out equally.

e) There were 20 pencils in the set but half of them were lost.

3. Write in words

a) 724   b) 842

Level 12

Card 8

1. Counting

a) 1010, 910, 810, ………………………………110

b) 821, 721, 621, ………………………………..121

2. Odd and evens

a) What is the even number that sits exactly between 110 and 130?

b) What is the odd number that sits exactly between 145 and 149?

3. a) **Choose the smallest number** and write it in words: 865, 892, 880, 863, 888

b) **Choose the largest number** and write it in figures: sixty six, six hundred and sixty, sixteen, six hundred and six

4. Number table

÷	12	20	32	40	24	80
4						

Level 12

Card 9

1. Number tables

÷	20	10	15	40	50	100
5						

÷	21	15	18	30	33	24
3						

2. Time

a) How many minutes does it take for a big hand on a clock to move from 12 to 12?

b) How many minutes does it take for the little hand to move from 12 to 7?

c) What is the time?
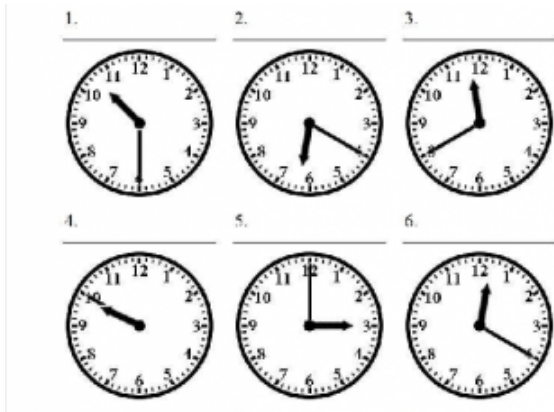
Level 12

Card 10

1. Missing number

a) 8 x □ = 40

b) 4 x □ = 40

c) 6 x □ = 12

d) 12 ÷ □ = 3

e) 21 ÷ □ = 7

f) 42 + □ = 54

g) 124 + □ = 130

h) 56 - □ = 49

i) 127 - □ = 119

2. Missing sign

a) 9 □ 4 = 36

b) 9 □ 4 = 13

c) 9 □ 4 = 5

d) 9 □ 3 = 3

e) (8 x □) + (5 x 10) + 4 = 854

Level 12

Card 11

1. Number sentences

	Addition number sentence	Multiplication number sentence
a	9 + 9 + 9 + 9 + 9 = □	
b		5 x 5 = □
c	8 + 8 + 8 + 8 + 8 + 8 = □	
d		6 x 6 = □

2. Problem solving

a) I painted ⅕ of my fingernails red. How many did I paint?

b) If I double 9, then double it again, what number do I get?

c) 4 pencils cost $4. 40. What is the cost of one pencil?

d) How many centimetres are there in 1½ metres?

e) How many minutes are there is 1½ hours?

f) 4 girls and 2 boys. How many toes?

Level 12

Card 12

1. Subtraction

a) Find the difference between 6 and 30. Answer □

b) 15 less than 40 = □

c) Find the difference between the two numbers:

-	7	8	9	4
32				
57				
61				
74				

2. Work out these using extended notation

a) 46 + 53

b) 39 + 52

3. Problem solving

Tim's Dad is 25 years older than Tim. Tim's age is 9. How old is his Dad?

Level 12

Card 13

1. Finish the patterns and write the rule.

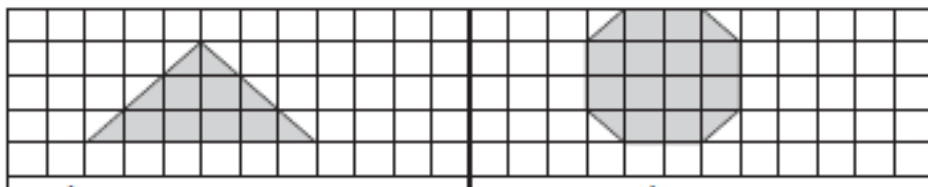| 1	2	5	4	6
3	6			

Rule: multiply by _____

2	3	4	9	19	25	36	58
9	10						

Rule: add _____

2. Measurement

a) What is the perimeter of a square with 4 cm sides?

b) What is the area of the triangle?

c) What is the area of the square?

Each square is one centemetre.

Level 12

Card 14   Test (Score out of 10: one point each except for i – l)

a) 9 more than 556.

b) 700 + 2,000 + 5 + 60

c) 2 x 33 = □ x (30 + □)

         =

d) 24 + 38 = (20 + □) + (30 + □)

         =

e)   243 = 200 + □ + □

    + 425 = 400 + □ + □
    _____

      =

f) 154 + □ = 162

g) 8 □ 3 = 5

h) (4 x 1,000) + (3 x 100) + (8 x 10) + (5 x 1) = □

i) (½ of 18) + 21 = □   (Half point)

j) 5 + 5 + 5 + 5 + 5 + 5 = □ x □ = □   (Half point)

k) 28 ÷ 4 = □   (Half point)

l) (15 ÷ 3) x 4 = □   (Half point)