

Year 2 - Additional Maths

Should you have any additional math time please feel free to tackle some of the following tasks. I have inserted some links to a range of math websites below and if you follow on you will find multiple tasks to support KIRF learning (Key Instant Recall Facts). To put KIRFs simply, it is a range of mental math skills we would like children to know.

<https://www.educationcity.com/>

Login and then select the math resources and the year group you wish to do. (There is a lot of English resources on Education City also)

<https://play.ttrockstars.com/auth/school/student>

Again, login and you can access a range of times tables to practice.

If you have forgotten your login details please email me and I will send them to you.

KIRFS - Key Instant Recall Facts

On the following pages are activities to support the learning of these mental maths skills. Each skill has example of different questions which gradually get more difficult. I would suggest to practice these mental math skills little and often at the level where your child is challenged. I have included on the next page the year 1 skills and year 3 skills so you know what they should already know and where they are heading next.

Y	Counting and Place Value	Multiplication Tables	Number Bonds	Doubling and Halving	Addition and Subtraction	Measures
1	Count forwards and backwards in steps of 10 Count forwards and backwards in steps of 2 Count forwards and backwards in steps of 5 Count to and across 100, forwards and backwards, from any given number Understand equal, more than, less than Given a number, identify one more and one less	x10	Know all number bonds to 5 Find patterns in number bonds to 5 Know all number bonds to 10 Find patterns in number bonds to 10 Know all addition facts for all numbers between 0 and 10 Know all subtraction facts for all numbers between 0 and 10 Understand missing number calculations	Know all doubles to 10 Know all halves to 10	Add a one digit number to a two digit number Subtract a one digit number from a two digit number Add numbers to 10 Subtract numbers to 10 Add a multiple of 10 to a two digit number (using a 100 square and flip flap) Subtract a multiple of 10 from a two digit number (using a 100 square and flip flap) Solve missing number calculations Understand the effect of adding and subtracting 0	Know the seasons in order Know the months of the year in order
2	Count in 10s from any given number, forwards and backwards Count in 2s from any given number, forwards and backwards, crossing boundaries Count in steps of 2, 3 and 5 from 0, forwards and backwards Understand the value of T & U	x2 x5 Children recognise odd and even numbers	Know all number bonds to 20 Find patterns in number bonds to 20 Link number bonds to 20 to number bonds to 10 Understand the = sign in balancing equations Use and understand < and > signs Understand missing number calculations	Know the doubles of all numbers to 20 Know the halves of all numbers to 20	Add multiples of 10 including crossing significant boundaries Subtract multiples of 10 including crossing significant boundaries Know all addition facts for multiples of 10 to 100 Know all subtraction facts for multiples of 10 to 100	Know how many p in a £ Know the number of minutes in an hour Know the number of hours in a day
3	Count from 0 in multiples of 100 & 50 Count from 0 in multiples of 4 & 8 Count in 5s from any given number, forwards and backwards, crossing boundaries Count in 4s from any given number, forwards and backwards, crossing boundaries	x4 x3 x8 x50 x100 Children recognise that multiples of even times tables are all even	Understand the = sign in balancing equations Use and understand < and > signs Understand missing number calculations Know all number bonds to 100 Visualise number bonds to 100 on a number line Find patterns within number bonds to 100	Know doubles of all whole numbers to 20 Know halves of all whole numbers to 20 Know doubles of all multiples of 10 to 500 Know halves of all multiples of 10 to 500 Know doubles of all multiples of 100 to 5000	Know all addition and subtraction facts for multiples of 100 to 1000 Know all addition and subtraction facts for multiples of 5 with a total of 100 Know all addition and subtraction facts for number pairs that total 100 Add and subtract mentally: <ul style="list-style-type: none"> A three digit number and ones A three digit number and tens A three digit number and hundreds 	Know the number of seconds in a minute Know the number of days in each month, year and leap year Understand am and pm; noon and midnight

Count in 10s from any given number, forwards and backwards

Children to complete the following sequences

0	10	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
20	30	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
100	110	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
23	33	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
117	127	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	90	100	110	_____	_____
_____	_____	_____	_____	_____	_____	_____	130	140	150	_____	_____
_____	_____	_____	_____	_____	_____	_____	98	108	118	_____	_____

Count in 5s from any given number, forwards and backwards

Children to complete the following sequences

0	5	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
10	15	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
55	60	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____	55	60	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____	65	70	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____	90	95	_____

Count in 2s from any given number, forwards and backwards

Children to complete the following sequences

0	2	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
14	16	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
42	44	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
66	68	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
92	94	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	20	22	24	_____	_____
_____	_____	_____	_____	_____	_____	_____	54	56	58	_____	_____
_____	_____	_____	_____	_____	_____	_____	100	102	104	_____	_____

Understand the value of Tens (T) and Units (U)
(Units can also be referred to as Ones (O))

What is the value of the digit underlined then complete the number sentences

$$\underline{4}5 = \underline{40}$$

$$78 = \underline{70} + \underline{8}$$

$$\underline{8}9 = \underline{\quad\quad}$$

$$37 = \underline{\quad\quad} + \underline{\quad\quad}$$

$$\underline{2}3 = \underline{\quad\quad}$$

$$78 = \underline{\quad\quad} + \underline{\quad\quad}$$

$$\underline{7}1 = \underline{\quad\quad}$$

$$58 = \underline{\quad\quad} + \underline{\quad\quad}$$

$$\underline{9}8 = \underline{\quad\quad}$$

$$69 = \underline{\quad\quad} + \underline{\quad\quad}$$

$$\underline{6}5 = \underline{\quad\quad}$$

$$89 = \underline{\quad\quad} + \underline{\quad\quad}$$

$$\underline{2}3 = \underline{\quad\quad}$$

$$29 = \underline{\quad\quad} + \underline{\quad\quad}$$

$$\underline{4}78 = \underline{\quad\quad}$$

$$13 = \underline{\quad\quad} + \underline{\quad\quad}$$

$$\underline{2}35 = \underline{\quad\quad}$$

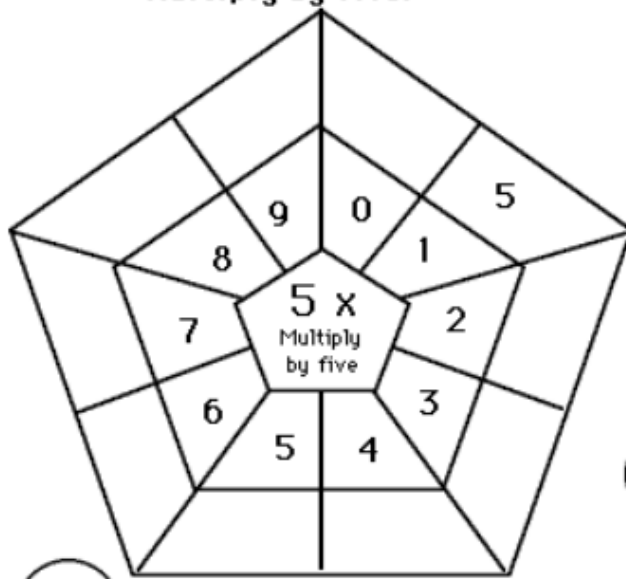
$$99 = \underline{\quad\quad} + \underline{\quad\quad}$$

$$190 = \underline{\quad\quad} + \underline{\quad\quad} + \underline{\quad\quad}$$

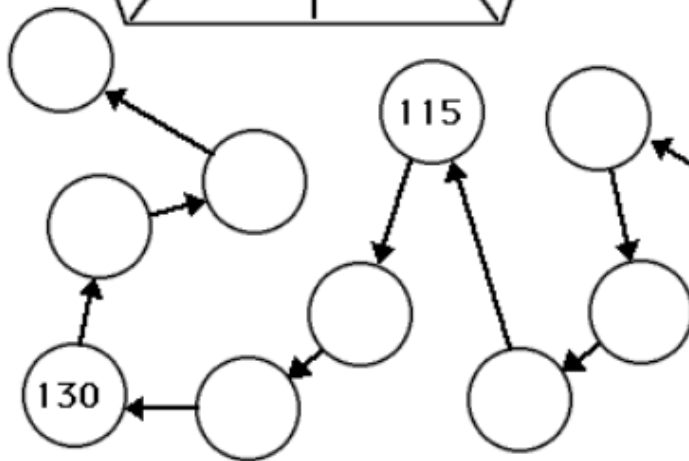
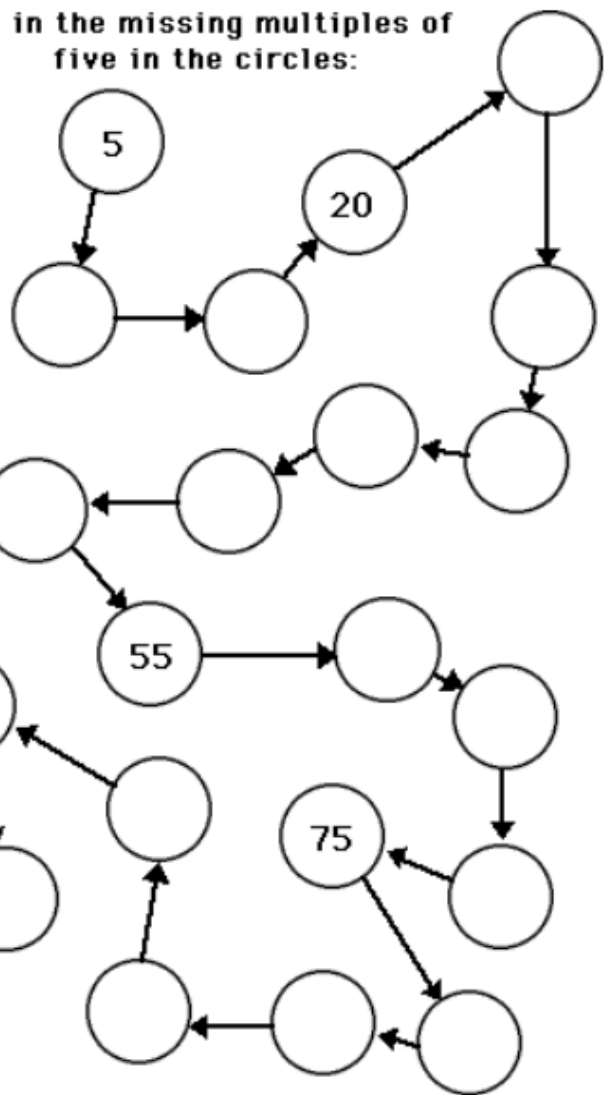
Early Multiplication

Multiplying By Five, Part 2

Multiply by five:



Fill in the missing multiples of five in the circles:



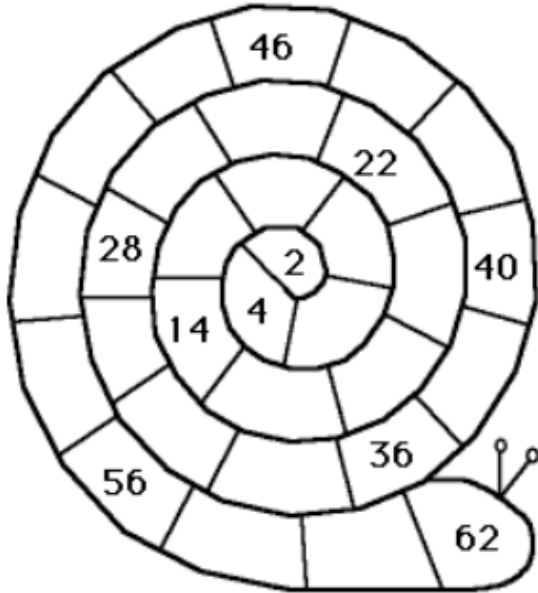
Fill in the missing numbers:

Early Multiplication

Multiplying By Two

2

Fill in the missing multiples of two in the spiral below:



Color the multiples of 2:

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

To recognise odds and evens

Odds and evens

Find numbers to make these totals:

Write only **odd** numbers in **triangles**.

Write only **even** numbers in **circles**.

$$\bigcirc + \triangle = 5$$

$$\triangle + \triangle = 6$$

$$\bigcirc + \triangle = 9$$

$$\bigcirc + \triangle = 15$$

$$\triangle + \bigcirc = 7$$

$$\triangle + \bigcirc = 17$$

$$\bigcirc + \bigcirc = 12$$

$$\triangle + \triangle = 16$$

$$\triangle + \bigcirc = 19$$

I know all number bonds to 20

Children to complete the following number sentences

$8 + \underline{\quad\quad\quad} = 20$

$6 + \underline{\quad\quad\quad} = 20$

$14 + \underline{\quad\quad\quad} = 20$

$13 + \underline{\quad\quad\quad} = 20$

$10 + \underline{\quad\quad\quad} = 20$

$6 + \underline{\quad\quad\quad} = 20$

$7 + \underline{\quad\quad\quad} = 20$

$\underline{\quad\quad\quad} + 7 = 20$

$9 + \underline{\quad\quad\quad} = 20$

$19 + \underline{\quad\quad\quad} = 20$

$15 + 5 = \underline{\quad\quad\quad}$

$2 + \underline{\quad\quad\quad} = 20$

$4 + \underline{\quad\quad\quad} = 20$

$11 + \underline{\quad\quad\quad} = 20$

$\underline{\quad\quad\quad} + 3 = 20$

$\underline{\quad\quad\quad} + 6 = 20$

$0 + \underline{\quad\quad\quad} = 20$

$17 + \underline{\quad\quad\quad} = 20$

$1 + \underline{\quad\quad\quad} = 20$

$1 + \underline{\quad\quad\quad} = 20$

I can link number bonds to 20 to number bonds to 10

$4 + 6 = 10$

$\underline{\quad\quad\quad} + 5 = 20$

$14 + 6 = 20$

$\underline{\quad\quad\quad} + 5 = 10$

$3 + \underline{\quad\quad\quad} = 10$

$\underline{\quad\quad\quad} + 9 = 10$

$13 + \underline{\quad\quad\quad} = 20$

$\underline{\quad\quad\quad} + 1 = 10$

$8 + 2 = \underline{\quad\quad\quad}$

$0 + \underline{\quad\quad\quad} = 10$

$18 + 2 = \underline{\quad\quad\quad}$

$0 + \underline{\quad\quad\quad} = 20$

$12 + \underline{\quad\quad\quad} = 20$

$11 + 9 = \underline{\quad\quad\quad}$

$2 + \underline{\quad\quad\quad} = 10$

$1 + 9 = \underline{\quad\quad\quad}$

To understand the = sign in balancing equations

$7 + 2 = 6 + \underline{3}$

$10 - 3 = 4 + \underline{\quad}$

$12 - \underline{\quad} = 7 + 3$

$8 \div 2 = 6 - \underline{\quad}$

$\underline{\quad} + 4 = 7 \times 2$

$2 + 4 = \underline{\quad} \times 2$

$3 \times 5 = 20 - \underline{\quad}$

$20 + 10 = 25 + \underline{\quad}$

Use and understand < and > signs

Add either the < or > sign to make each sentence correct

< less than

> greater than

$10 \underline{\quad} 12$

$123 \underline{\quad} 113$

$23 \underline{\quad} 34$

$86 \underline{\quad} 85$

$23 \underline{\quad} 21$

$765 \underline{\quad} 755$

$67 \underline{\quad} 47$

$2 + 3 \underline{\quad} 7$

$76 \underline{\quad} 75$

$12 - 2 \underline{\quad} 5$

$65 \underline{\quad} 45$

$28 + 2 \underline{\quad} 42$

Understand missing number calculations

$$\underline{\quad} + 7 = 9$$

$$10 + \underline{\quad} = 17$$

$$5 + \underline{\quad} = 10$$

$$6 - \underline{\quad} = 3$$

$$\underline{\quad} - 3 = 7$$

$$19 - \underline{\quad} = 17$$

$$20 - \underline{\quad} = 10$$

$$55 - 5 = \underline{\quad}$$

$$2 \times \underline{\quad} = 8$$

$$\underline{\quad} \times 5 = 1$$

$$2 \times \underline{\quad} = 4$$

$$10 \div \underline{\quad} = 2$$

$$15 \div \underline{\quad} = 5$$

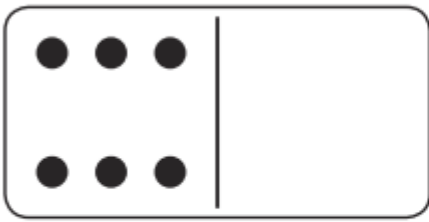
$$\underline{\quad} \div 10 = 10$$

$$10 \times \underline{\quad} = 60$$

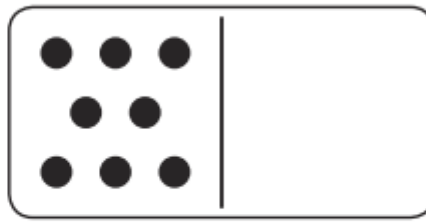
$$40 \div \underline{\quad} = 10$$

I know my doubles of all numbers to 20

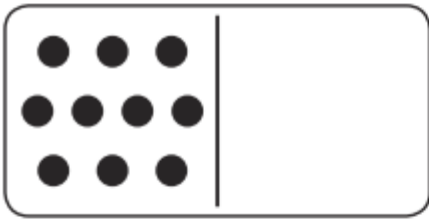
Double Dominoes to 20



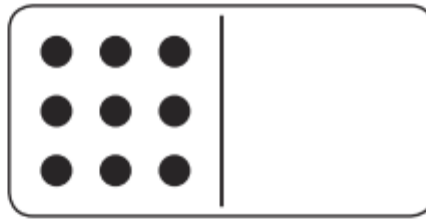
Double 6 is _____ .



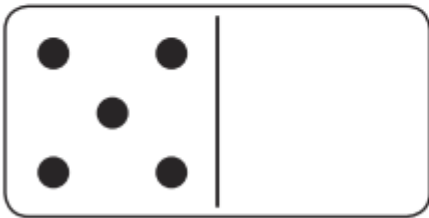
Double 8 is _____ .



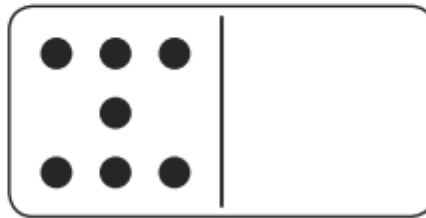
Double 10 is _____ .



Double 9 is _____ .



Double 5 is _____ .



Double 7 is _____ .

I know my halves of all numbers to 20

Colour half the beads one colour and half another. Complete the statement below.



Half of 6 is _____



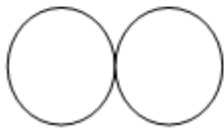
Half of 8 is _____



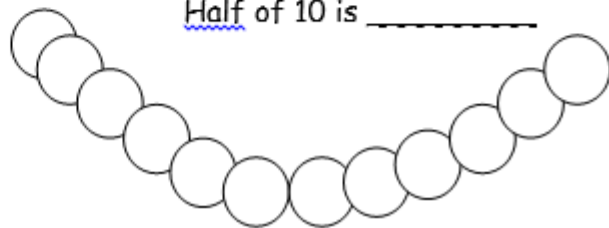
Half of 4 is _____



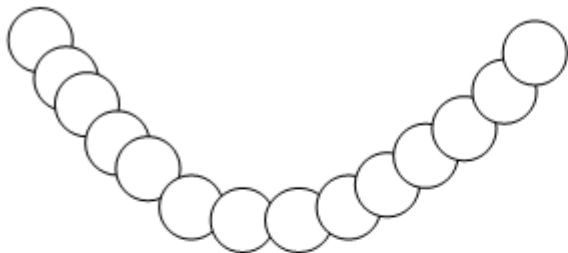
Half of 10 is _____



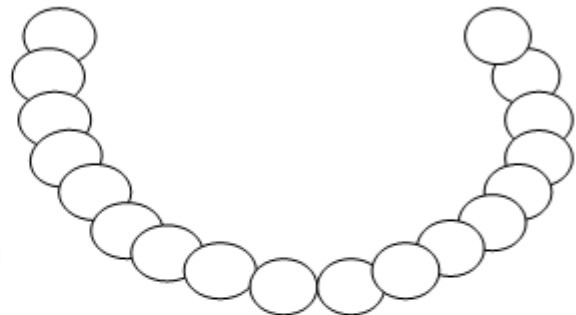
Half of 2 is _____



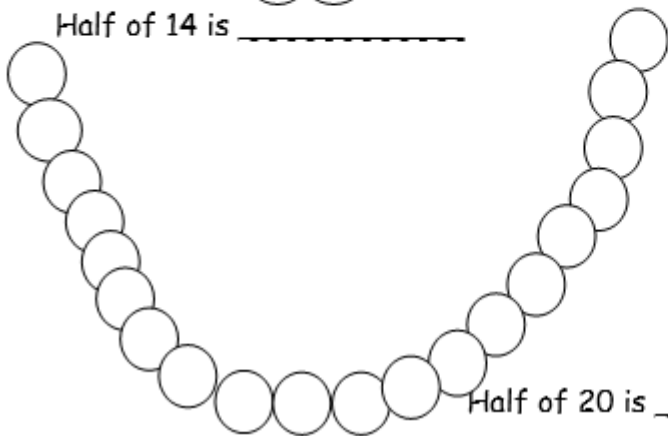
Half of 12 is _____



Half of 14 is _____



Half of 18 is _____



Half of 20 is _____

I can add multiples of 10 to 100

Task 1

1) $20 + 40 =$

2) $30 + 50 =$

3) $20 + 40 =$

4) $30 + 50 =$

5) $70 + 30 =$

6) $10 + 50 =$

7) $40 + 40 =$

8) $40 + 40 =$

9) $50 + 20 =$

10) $80 + 40 =$

Task 2

1) $10 + 40 + 40 =$

2) $10 + 50 + 20 =$

3) $20 + 20 + 40 =$

4) $20 + 30 + 50 =$

5) $50 + 20 + 30 =$

6) $20 + 10 + 50 =$

7) $40 + 40 =$

8) $60 + 40 =$

9) $50 + 20 + 10 =$

10) $80 + 40 + 30 =$

I can subtract multiples of 10 to 100

Children to complete the following sequences

$80 - 10 = \underline{\quad}$	$90 - 50 = \underline{\quad}$
$90 - 10 = \underline{\quad}$	$80 - \underline{\quad} = 10$
$60 - \underline{\quad} = 20$	$40 - \underline{\quad} = 20$
$90 - \underline{\quad} = 40$	$\underline{\quad} - 50 = 30$
$100 - \underline{\quad} = 70$	$70 - 30 = \underline{\quad}$
$80 - \underline{\quad} = 30$	$\underline{\quad} - 70 = 30$
$90 - \underline{\quad} = 90$	$80 - \underline{\quad} = 50$
$40 - \underline{\quad} = 10$	$30 - \underline{\quad} = 20$

I can add multiples of 10

Adding multiples of 10

10. $90 + 91 =$

9. $80 + 31 =$

8. $30 + 66 =$

7. $50 + 33 =$

6. $43 + 40 =$

5. $57 + 30 =$

4. $18 + 20 =$

3. $22 + 20 =$

2. $35 + 10 =$

1. $88 + 10 =$



I can subtract multiples of 10

10. $12 - 10 =$

9. $18 - 10 =$

8. $23 - 20 =$

7. $51 - 20 =$

6. $43 - 30 =$

5. $57 - 30 =$

4. $64 - 40 =$

3. $72 - 50 =$

2. $85 - 70 =$

1. $95 - 90 =$



I know how many pence in a £ (pound)

Complete the following conversions

£ into p

£1 = _____

£2 = _____

£3 = _____

£4 = _____

£5 = _____

£6 = _____

£9 = _____

£1.50 = _____

£2.50 = _____

£1.20 = _____

p into £

100p = _____

200p = _____

300p = _____

400p = _____

500p = _____

600p = _____

800p = _____

150p = _____

250p = _____

125p = _____

I know time related facts

Please learn the following

Number of days in a week _____

Number of months in a year _____

Number of weeks in a year _____

Number of seconds in a minute _____

Number of minutes in an hour _____

Number of hours in a day _____