Year 5 : Numeracy Day 1 Week 1

Each day, complete your times table starter. Then watch the video lesson, clicking through each round tab then complete the related worksheet.

12 x Times Tables Starter

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

10 x 12 = _____	5 x 12 = _____	6 x 12 = _____
1 x 12 = _____	2 x 12 = _____	12 x 12 = _____
9 x 12 = _____	9 x 12 = _____	1 x 12 = _____
6 x 12 = _____	10 x 12 = _____	4 x 12 = _____
2 x 12 = _____	4 x 12 = _____	11 x 12 = _____

Adding and subtracting using the 'round and adjust' strategy

https://classroom.thenational.academy/lessons/adding-and-subtracting-using-the-round-and-adjust-strategy-chk64e

Pause the video to complete your task

Resume once you're finished

Use 'round and adjust' to solve:

4500 - 998 =

'I have subtracted _____. That is _____. I need to _____ to my answer.'

Use 'round and adjust' to solve:

6329 + 995 =

'I have added _____. That is _____. I need to _____ to my answer.'

Use 'round and adjust' to solve:

9400 - 3980 =

'I have subtracted_____. That is _____. I need to _____ to my answer.'

Independent Task

Complete each calculation below using the 'round and adjust' strategy:

1. 21 650 + 4980 =
2. 35 000 - 9700 =
3. 19 400 - 3950 =
4. 40 500 + 9800 =
5. 8020 + 3900 =
6. 12 500 - 5997 =

12 x Times Tables Starter

Exercise 1:

Color in all of the boxes that are the solutions of this time table.

65	110	72	132	48
86	12	74	84	108
48	144	99	120	84
33	96	24	108	60
112	56	36	120	11

Exercise 2:

Complete the circle by multiplying the number in the center by the middle ring to get the outer numbers.

Exercise 3:

Fill in the correct product.

a) 8 x 12 =_____   b) 5 x 12 =_____   c) 3 x 12 =_____
d) 7 x 12 =_____   e) 12 x 12 =_____   f) 11 x 12 =_____

Adding using the column method

https://classroom.thenational.academy/lessons/adding-using-the-column-method-6wt64c
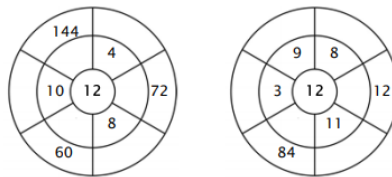
Pause the video to complete your task

Resume once you're finished

63 198 + 25 764 =

Hundred Thousands	Ten Thousands	Thousands	Hundreds	Tens	Ones

1. Estimate the answer to the calculation using rounding.
2. Calculate the answer using the column method.

437 029 + 158 772 =
632 901 + 45 891 =

8501 + 3952 + 2467 =

Calculation:

Estimation:

$$
\begin{array}{r}
8501 \\
3952 \\
+2467 \\
\hline
\end{array}
$$

Independent Task

For each of the equations below, provide a suitable estimate before calculating using the column method:

a) 236 712 + 441 823 =
b) 210 462 + 549 882 =
c) 712 013 + 56 225 =
d) 4510 + 2683 + 1195 =
e) 12 013 + 4432 + 1549 =

Year 5: Numeracy Day 3 Week 1

12 x Times Tables Starter

Exercise 1:

Draw a line connecting the multiplcation expression with the correct product.

3 x 12	48
10 x 12	120
4 x 12	84
5 x 12	132
9 x 12	24
11 x 12	36
7 x 12	72
2 x 12	108
6 x 12	144
12 x 12	60

Exercise 2:

Fill in the missing number.

a) ⭐ x 12 = 96   b) ⭐ x 12 = 12   c) ⭐ x 12 = 36

Exercise 3:

Fill in the correct product.

a) 4 x 12 =_____   b) 10 x 12 =_____   c) 2 x 12 =_____

d) 7 x 12 =_____   e) 3 x 12 =_____   f) 11 x 12 =_____

Subtracting using the column method

https://classroom.thenational.academy/lessons/subtracting-using-the-column-method-6xj32d

❚❚ Pause the video to complete your task

▶ Resume once you're finished

399 622 - 158 351 =

Hundred Thousands	Ten Thousands	Thousands	Hundreds	Tens	Ones

1. Estimate the answer to the calculation using rounding.
2. Calculate the answer using the column method.

732 198 - 131 449 =
923 556 - 385 128 =

Bar modelling

Let's represent:
653 119 - 120 401
using a bar model:

Calculation:

Estimation:

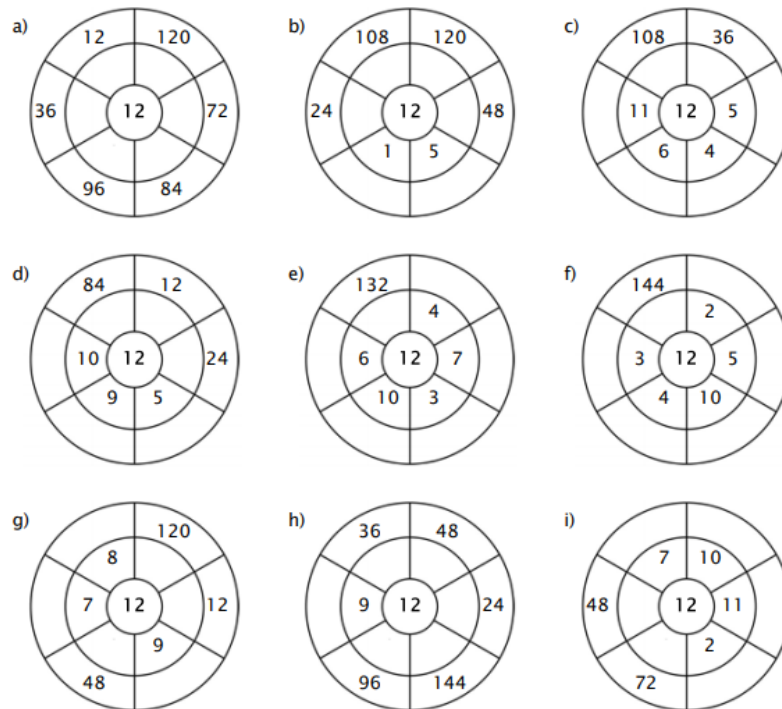## Independent Task

1. For each of the equations below, provide a suitable estimate before calculating using the column method:

a) 778 660 - 145 132 =

b) 801 991 - 332 098 =

c) 563 109 - 23 986 =

2. Create a bar model to represent and calculate:
451 229 - 23 012 =

<u>**Year 5 : Numeracy Day 4 Week 1**</u>

12 x Times Tables Starter

Complete the circle by multiplying the number in the center by the middle ring to get the outer numbers.

a) Center: 12; middle ring: 36, 12, 120, 72, 84, 96

b) Center: 12; middle ring: 24, 108, 120, 48, 5, 1

c) Center: 12; middle ring: 11, 108, 36, 5, 4, 6

d) Center: 12; middle ring: 10, 84, 12, 24, 5, 9

e) Center: 12; middle ring: 6, 132, 4, 7, 3, 10

f) Center: 12; middle ring: 3, 144, 2, 5, 10, 4

g) Center: 12; middle ring: 7, 8, 120, 12, 9, 48

h) Center: 12; middle ring: 9, 36, 48, 24, 144, 96

i) Center: 12; middle ring: 48, 7, 10, 11, 2, 72

Problem solving using the column method

https://classroom.thenational.academy/lessons/problem-solving-using-the-column-method-c8up6c

Bar model:

Calculation:

Estimation:

$$
\begin{array}{r}
7\,8\,4\,2\,6 \\
+\,1\,3\,9.0\,2 \\
\hline
 \\
\hline
\end{array}
$$

Bar model:

Calculation:

Estimation:

$$
\begin{array}{r}
7\,1\,6\,5\,9\,8 \\
-\,3\,5\,4\,7\,1\,0 \\
\hline
 \\
\hline
\end{array}
$$

What errors have been made here?

1)
$$
\begin{array}{r}
6\;3\;9\;7\;2 \\
-\;4\;7\;3\;5\;4 \\
\hline
2\;4\;6\;2\;2 \\
\hline
\end{array}
$$

$$
\begin{array}{r}
4\;7\;6\;3\;2\;1 \\
-\;\;\;3\;9\;5\;0\;3 \\
\hline
4\;4\;7\;8\;2\;8 \\
\hline
\end{array}
$$

'I can see that the error made here is _____.
I know this because _____.'

Incomplete column method

Is it possible to complete the calculation using the column method?

1)
```
     5 6 3 □ 8
   + 2 □ 0 · 5 1
   ─────────────
     □ 5 3 9 □
   ─────────────
```

'First I will consider the digits in the ones column: _____.
Now, I will look at the digits in the tens column: _____ ...'

Independent Task

1) Use the column method to estimate and calculate: 672 443 + 169 967 =
2) Use the column method to estimate and calculate: 813 922 - 176 589 =
3) Identify the error that has been made here:

```
     7 5 2 1 6 8
   - 3 7   0 5 4
   ──────────────
     3 8 1 6 2 8
   ──────────────
```

4) Create your own maths word problem/story and add your own bar model and calculation.

Year 5: Numeracy Day 5 Week 1

12 x Times Tables Starter

$108 \div 12 =$ ____ (1)	$120 \div 12 =$ ____ (11)	$24 \div 12 =$ ____ (21)
$72 \div 12 =$ ____ (2)	$12 \div 12 =$ ____ (12)	$48 \div 12 =$ ____ (22)
$84 \div 12 =$ ____ (3)	$96 \div 12 =$ ____ (13)	$108 \div 12 =$ ____ (23)
$24 \div 12 =$ ____ (4)	$12 \div 12 =$ ____ (14)	$36 \div 12 =$ ____ (24)
$60 \div 12 =$ ____ (5)	$120 \div 12 =$ ____ (15)	$72 \div 12 =$ ____ (25)
$120 \div 12 =$ ____ (6)	$24 \div 12 =$ ____ (16)	$48 \div 12 =$ ____ (26)
$60 \div 12 =$ ____ (7)	$36 \div 12 =$ ____ (17)	$72 \div 12 =$ ____ (27)
$84 \div 12 =$ ____ (8)	$12 \div 12 =$ ____ (18)	$108 \div 12 =$ ____ (28)
$24 \div 12 =$ ____ (9)	$96 \div 12 =$ ____ (19)	$120 \div 12 =$ ____ (29)
$108 \div 12 =$ ____ (10)	$72 \div 12 =$ ____ (20)	$36 \div 12 =$ ____ (30)

Solving multi-step addition and subtraction problems

⏸ **Pause the video to complete your task**   ▶ **Resume once you're finished**

> Use the counting back and counting on strategies to solve:

10 000 - 7890 =

Counting back:

Counting on:

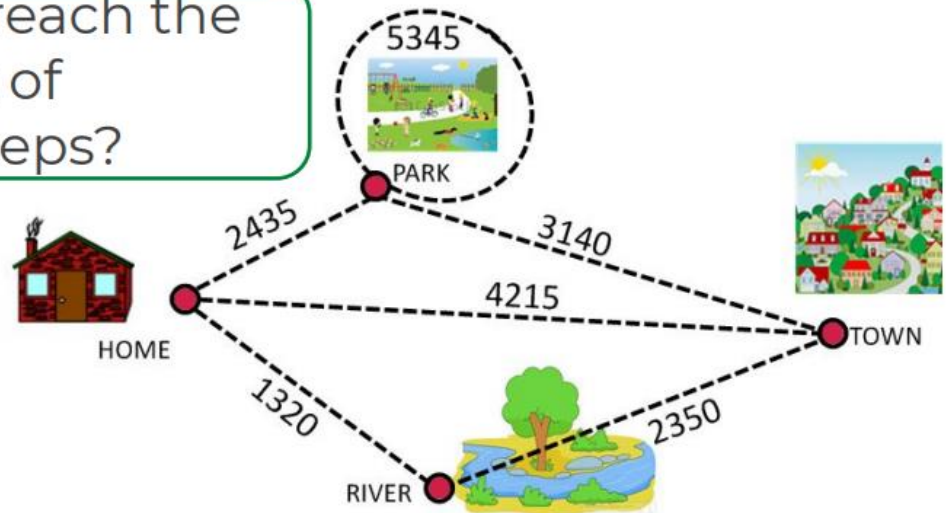| Day	Number of steps
Monday	7890
Tuesday	8305
Wednesday	8005
Thursday	9982
Friday	11 015
Saturday	13 472
Sunday	13 968

> My target has increased to 15 000 steps.

> How far was I from my target on Monday?

_____

_____

Applying strategies

How could I reach the
target of
15 000 steps?

**Estimate
and
Calculate**

5345

PARK

2435

3140

4215

HOME

1320

2350

TOWN

RIVER

Independent Task

Find as many
routes as
possible to
reach the
target amount
of 15 000 steps.
Don't forget to
estimate before
calculating:

SUPERMARKET
MORRISUMS

5345

PARK

3795

2435

3140

HOME

4215

1870

2985

RIVER

TOWN