Year 6: 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.

Times Tables Starter

×			
	15	24	12
	20	32	16
	30	48	24

×			
	8	0	56
	4	0	28
	3	0	21

×			
	12	36	16
	21	63	28
	3	9	4

×			
	15	10	35
	3	2	7
	12	8	28

×			
	0	12	4
	0	24	8
	0	27	9

×			
	48	12	36
	0	0	0
	24	6	18

Rounding and estimating

https://classroom.thenational.academy/lessons/applying-rounding-for-estimating-adding-65j62r?step=2&activity=video

Question 1

Round these numbers to the nearest 10

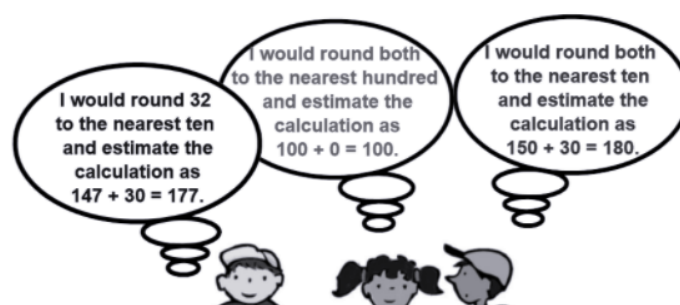| 65	42	96	80	22	38	12

Challenge -
Which is the odd one odd?
Why?

Question 2
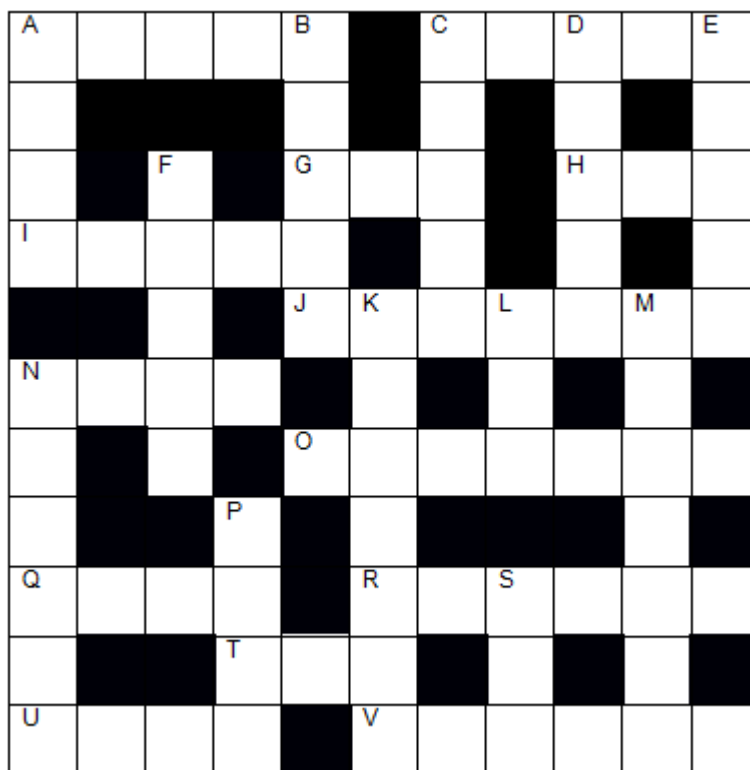
Use rounding to **estimate** the answer to these questions

59 + 32 =	25 + 41 =	64 + 211 =	24 + 109=	324 + 108 =	678+ 121 =

Challenge - 147 + 32 =
Look at these ideas.
Decide which is best
and why

I would round 32 to the nearest ten and estimate the calculation as 147 + 30 = 177.

I would round both to the nearest hundred and estimate the calculation as 100 + 0 = 100.

I would round both to the nearest ten and estimate the calculation as 150 + 30 = 180.

Year 6: Numeracy Day 2

12 x Times Tables Starter

Across

A	123 x 456
C	789 x 98
G	31 x 27
H	11 x 25
I	653 x 137
J	13099 x 645
N	131 x 11
O	8921 x 270
Q	101 x 84
R	1090 x 521
T	25 x 9
U	39 x 60
V	2501 x 222

Down

A	68 x 86
B	963 x 86
C	753 x 98
D	654 x 57
E	465 x 55
F	1111 x 22
K	4945 x 899
L	111 x 8
M	5696 x 997
N	444 x 333
P	107 x 60
S	31 x 25

Subtracting with regrouping (borrowing)

In this lesson, we'll be looking at subtraction problems that require regrouping (borrowing).

https://classroom.thenational.academy/lessons/subtracting-3-digit-numbers-regrouping-in-multiple-columns-74rkce?step=2&activity=video

Question 1

(Not all need column subtraction so look carefully)

323 — 134	519 — 272	215 — 176
475 — 162	865 — 683	923 — 513
704 — 526	422 — 264	764 — 538

1. **What do you think might be the best way to answer this calculation?**

$$404 - 268 = \boxed{}$$

2. **Can you spot the mistake here?**

		2	1	5
	−	1	2	6
		1	8	9

Can you subtract across zeros?

2000	5000	4000	5000	7000
− 1956	− 4102	− 1684	− 2687	− 2591

Year 6: Numeracy Day 3

12 x Times Tables Starter

What are the following numbers squared:

7   9   8   12

What are the following numbers cubed:

2   5   10

Adding and subtracting using multiples of 10, 100, 1000, 10 000 and 100 000

Today we will be looking at strategies of how to easily add and subtract multiples of 10, 100, 100 etc…

https://classroom.thenational.academy/lessons/adding-and-subtracting-using-multiples-of-10-100-1000-10-000-and-100-000-60upcc?step=2&activity=video

Question 1

Can you use the derived facts and 'Make 10' strategies to solve…?

36 000 + 5000 =

Question 2

1. Use the 'derived facts' or 'Make 10' strategies to solve the following:
a) 17 000 + 6000 =
b) 280 000 + 120 000 =
c) 36 000 - 8000 =
2. If I know that '15 + 4 = 19', what else do I know?
3. 210 000 people attend an event over the weekend. 80 000 attended on Saturday. How many attended on Sunday?

Year 6: Numeracy Day 4

12 x Times Tables Starter

On a piece of paper, can you write out the answers to your 9 times-tables **backwards** (starting with the answer to 12 x 9 =). Time yourself to do this as quickly as possible.

Subtraction and addition word problems

In this lesson, we will explore solving word problems, focusing on underlining key vocabulary and choosing the right order of operations.

Question 1

1. At the school fete the raffle raised £168. The cake stall raised £176. How much did both stalls raise altogether?
2. 368 pupils visited Edinburgh Zoo on Saturday. 277 more visited the Zoo on Sunday than Saturday. How many children went to the Zoo on Sunday?
3. Olive Grove Primary School has 276 pupils. The secondary school next door has 648 more pupils than the primary school. How many pupils were there at the secondary school?
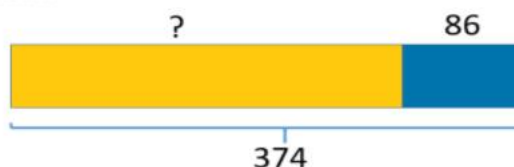
Question2

1) Make up your own word problem using this bar model

465

?   274
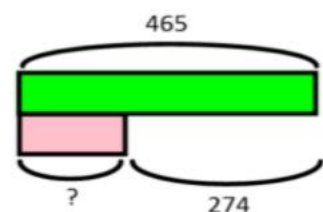
2) Can you spot my mistake here?

Tiger class are counting their coloured pencils. They have 374 pencils sharpened and ready to use. There are 86 fewer than this that need sharpening. How many pencils are there in total?

?   86
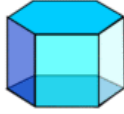
374

Year 6: Numeracy Day 5

12 x Times Tables Starter

What are the factors of:

10   100   25   30

Mental Maths Test

Today, you will be using various strategies to answer mixed questions.

1)	20 + 0.6 + 0.02	
2)	360 ÷ 4	
3)	How many edges?	
4)	I have a litre bottle of cola. I drink 650ml. How much is left?	ml
5)	Which two numbers have a sum of 15 and a product of 36?	
6)	(1 gallon = 8 pints) How many pints make 6 gallons?	
7)	$4\frac{1}{3} - 1\frac{2}{3}$	
8)	Write down all the factors of 33. ____ ____ ____ ____	
9)	Which of these numbers is **not** a multiple of 3? 81 111 73 27 105	
10)	Flight time from Houston to Orlando is 2 hours to 20 minutes. I arrive at Orlando at 4:15pm. What time did I set off?	
11)	What is ¾ of 20m?	m
12)	What is the value of $3(x - 6)$ when $x = 11$?	
13)	At a wildlife centre, adult entry is £12 and child entry is £8. I pay for 2 adults and 3 children with a £50 note. How much change?	
14)	The time is a quarter to 7 in the evening. Write this in 24-hour time.	
15)	A kid's skipping rope is 210 cm long. How many ropes could I cut from a 10-metre-long piece of rope?	
16)	Number cards from 1 to 10 are placed in a bag. Flame chooses a card at random. What is the chance that it is a multiple of 4?	
17)	Write down all the **prime** numbers between 10 and 20.	
18)	How many thirds make 5?	