Year 5

Maths Workshop
Tuesday 19th March 2019

Four operations

Year 5 Addition



Add the number of video views for Tuesday and Wednesday.



I will use counters to help me.

I will set out the work in columns and add them together, starting with the smallest place value.

TTh	Th	H	T	O

TTh	Th	H	T	O
2	0	1	5	3
+ 1	9	1	7	5
3	9	3	2	8
		1		

The total number of video views for Tuesday and Wednesday is 39,328.

Year 5
Subtraction

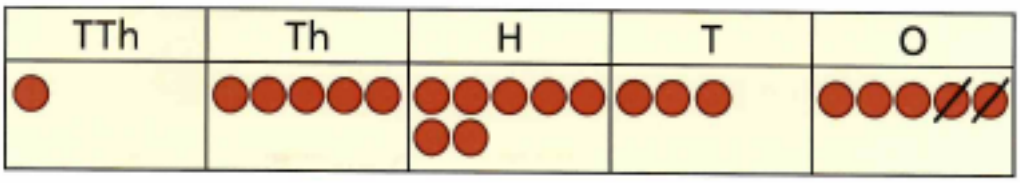


How much greater is the capacity of the velodrome than the capacity of the archery field?

a) The capacity of the velodrome is 15,735 people.

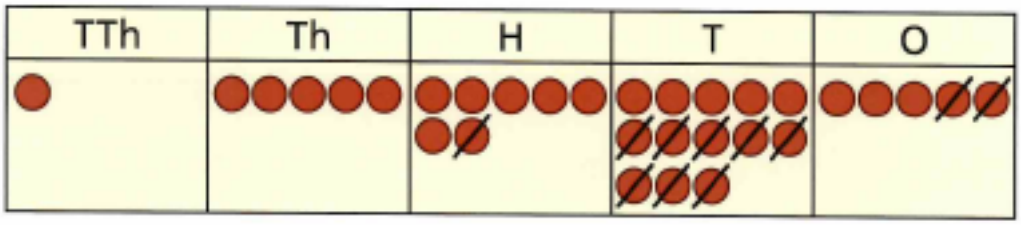
The capacity of the archery field is 2,582 people.

First subtract the 1s.



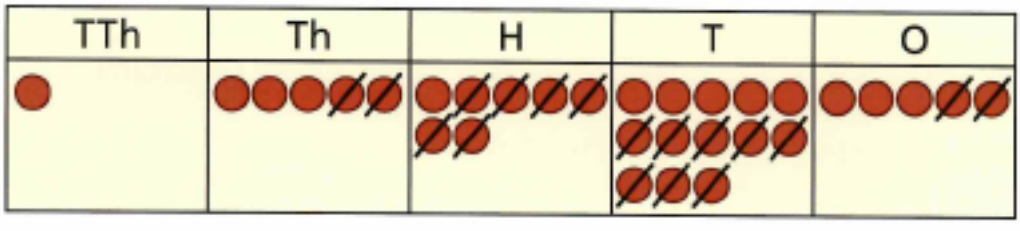
	TTh	Th	H	T	O
	1	5	7	3	5
−		2	5	8	2
					3

Now subtract the 10s. Exchange 1 hundred for 10 tens.



	TTh	Th	H	T	O
	1	5	$^{6}\not{7}$	$^{1}3$	5
−		2	5	8	2
				5	3

Subtract the 100s, 1,000s and 10,000s.



	TTh	Th	H	T	O
	1	5	$^{6}\not{7}$	$^{1}3$	5
−		2	5	8	2
	1	3	1	5	3

The velodrome capacity is 13,153 greater than the archery field capacity.

Long multiplication

Solve 54 × 32.

The 2 is in the 1s column.

First, multiply 4 × 2.

Multiply five 10s × 2.

1.

$$\begin{array}{r} 54 \\ \times\ 32 \\ \hline 8 \end{array}$$

2.

$$\begin{array}{r} 54 \\ \times\ 32 \\ \hline \square 8 \end{array}$$

The 3 is in the 10s column.

Now multiply 4 × 3 tens.

Multiply 5 tens × 3 tens.

3.

$$\begin{array}{r} {}^{1}54 \\ \times\ 32 \\ \hline 108 \\ 20 \end{array}$$

4.

$$\begin{array}{r} {}^{1}54 \\ \times\ 32 \\ \hline 108 \\ \square 20 \end{array}$$

Add 108 + 1620

Then add the products.

5.

$$\begin{array}{r} {}^{1}54 \\ \times\ 32 \\ \hline 108 \\ 1620 \\ \hline 1728 \end{array}$$

Year 5 - Division

$$4 \overline{)4\,8\,5\,6}$$

Th	H	T	O
1,000 1,000 1,000 1,000	100 100 100 100 100 100 100 100	10 10 10 10 10	1 1 1 1 1 1

$$\begin{array}{r} 1\,2\,1\,4 \\ 4 \overline{)4\,8\,5\,{}^{1}6} \end{array}$$

Th	H	T	O
1,000 1,000 1,000 1,000	100 100 100 100 100 100 100 100	10 10 10 10 10 →	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

$$6 \overline{)6\,7\,2\,6}$$

Th	H	T	O
1,000 1,000 1,000 1,000 1,000 1,000	100 100 100 100 100 100 100	10 10	1 1 1 1 1 1

$$\begin{array}{r} 1\,1\,2\,1 \\ 6 \overline{)6\,7\,{}^{1}2\,6} \end{array}$$

Th	H	T	O
1,000 1,000 1,000 1,000 1,000 1,000	100 100 100 100 100 100 100 →	10 10 10 10 10 10 10 10 10 10 10 10	1 1 1 1 1 1