

Place value



Millions	Hundred Thousands	Ten Thousands	Thousands	Hundreds	Tens	Units	Decimal Point	Tenths	Hundredths	Thousandths
9	6	3	5	2	1	4	.	7	0	8

Find the number represented by the tens and ones below.

1. = 2. =

3. = 4. =

5. = 6. =

What is the value of the 3 in the number below? 2. What is the value of the 8 in the number below?

Hundreds	Tens	Ones
6	3	7

Hundreds	Tens	Ones
8	4	9

What is the value of the 5 in the number below? 4. What is the value of the 9 in the number below?

Hundreds	Tens	Ones
3	1	5

Hundreds	Tens	Ones
1	9	2

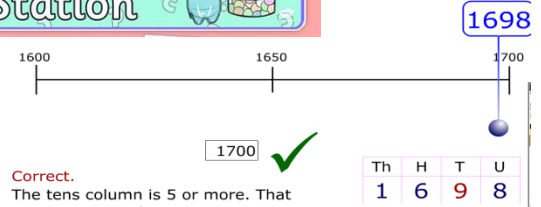
Subtraction

$$\begin{array}{r} 87 \\ - 55 \\ \hline 32 \end{array}$$

$$\begin{array}{r} 63 \\ - 27 \\ \hline 36 \end{array}$$

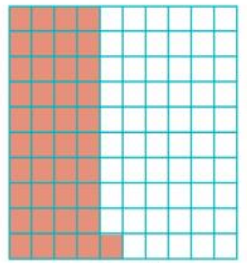
$$\begin{array}{r} 452 \\ - 263 \\ \hline 189 \end{array}$$

Estimation Station



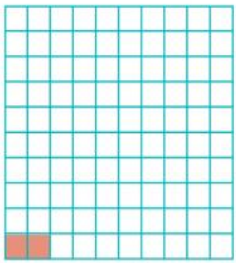
Year 7 Main Calculator

Hundred chart



0.41

Hundred chart



0.02

Finding the MEAN (Mathematically Evaluated Average Number)

We add up all the items, then divide by how many items we have. Mean = Total / How Many

Example 1. Two dice were thrown 10 times. For each throw their scores were added together and recorded. Find the **mean** and **range** for this data.

7, 5, 2, 7, 6, 12, 10, 4, 8, 9

$$\text{Mean} = \frac{7 + 5 + 2 + 7 + 6 + 12 + 10 + 4 + 8 + 9}{10} = \frac{70}{10} = 7$$

(Range = Max - Min = 12 - 2 = 10)



Addition

$$\begin{array}{r} \text{T} \quad \text{U} \\ 5 \quad 2 \\ + 4 \quad 2 \\ \hline 9 \quad 4 \end{array}$$

$$\begin{array}{r} \text{H} \quad \text{T} \quad \text{U} \\ 2 \quad 2 \quad 4 \\ + 7 \quad 2 \quad 1 \\ \hline 9 \quad 4 \quad 5 \end{array}$$

$$\begin{array}{r} \text{H} \quad \text{T} \quad \text{U} \\ 1 \quad 3 \quad 6 \\ + 4 \quad 8 \quad 7 \\ \hline 6 \quad 2 \quad 3 \\ \hline 1 \quad 1 \end{array}$$

Place value

Number	Millions	Hundred Thousands	Tens Thousands	Thousands	Hundreds	Tens	Units
Four hundred and twenty seven							
Five thousand three hundred and thirty							
Six million four hundred and eleven							
Seven hundred and five thousand and two							
Four hundred and nineteen thousand and forty one							
Seven million thirty two thousand six hundred and five							
Five million three hundred thousand and twenty seven							
Two million forty three thousand two hundred and ten							
Four hundred and sixteen thousand and eighty two							
Seven million and sixty two							
Two hundred and forty six thousand and two hundred							
Five hundred and seventy four thousand and eight							
Twenty six thousand four hundred and twenty seven							
Ninety nine thousand nine hundred and nine							
One hundred and six thousand three hundred and four							

Maths Nation Bank Date: _____

To: Mr Multiply Amount: _____

Ninety three thousand pounds and seven pence only £ _____

Sign _____

Maths Nation Bank Date: _____

To: Ms Division Amount: _____

Three hundred thousand pounds and twenty five pence only £ _____

Sign _____

Subtraction

Bronze

Complete these calculations.

1) $\begin{array}{r} 87 \\ - 46 \\ \hline \end{array}$ 2) $\begin{array}{r} 979 \\ - 467 \\ \hline \end{array}$ 3) $\begin{array}{r} 912 \\ - 401 \\ \hline \end{array}$

Silver

Set your columns out correctly and then work these out.

4) $567 - 346 =$ 5) $496 - 82 =$ 6) $727 - 125 =$

Gold

Borrow numbers correctly to find the answers.

7) $\begin{array}{r} 423 \\ - 318 \\ \hline \end{array}$ 8) $\begin{array}{r} 271 \\ - 91 \\ \hline \end{array}$ 9) $\begin{array}{r} 876 \\ - 685 \\ \hline \end{array}$

Super Gold

Borrow more than once (set your columns out correctly).

10) $956 - 177 =$ 11) $403 - 294 =$ 12) $623 - 247 =$

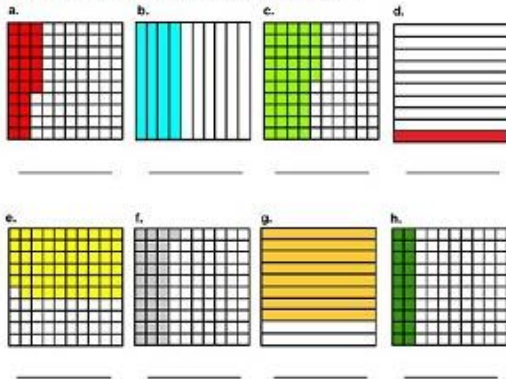
Estimation Station

- | | |
|-------------------------------------|-------------------------------------|
| 1) 2130 (1000) <input type="text"/> | 4) 3137 (1000) <input type="text"/> |
| 2) 3350 (100) <input type="text"/> | 5) 5327 (100) <input type="text"/> |
| 3) 3418 (10) <input type="text"/> | 6) 6285 (10) <input type="text"/> |

Year 7 Main Calculator

Decimals: Hundredths and Tenths

Write the decimal and the fraction of each shaded part.



- | | |
|--------------------------------------|--------------------------------------|
| 50, 50, 70, 73, 82 | 43, 47, 47, 56, 77 |
| Enter the mean: <input type="text"/> | Enter the mean: <input type="text"/> |
| 40, 52, 69, 69, 75 | 55, 57, 57, 68, 78 |
| Enter the mean: <input type="text"/> | Enter the mean: <input type="text"/> |
| 38, 49, 52, 73, 73 | 35, 40, 41, 41, 53 |
| Enter the mean: <input type="text"/> | Enter the mean: <input type="text"/> |

Addition

Bronze

Add the two numbers together.

1) $\begin{array}{r} 23 \\ + 46 \\ \hline \end{array}$ 2) $\begin{array}{r} 532 \\ + 467 \\ \hline \end{array}$ 3) $\begin{array}{r} 912 \\ + 73 \\ \hline \end{array}$

Silver

Set your columns out correctly and add these numbers.

4) $108 + 471 =$ 5) $416 + 82 =$ 6) $27 + 520 =$

Gold

Carry numbers correctly to find the answers.

7) $\begin{array}{r} 423 \\ + 388 \\ \hline \end{array}$ 8) $\begin{array}{r} 271 \\ + 39 \\ \hline \end{array}$ 9) $\begin{array}{r} 176 \\ + 675 \\ \hline \end{array}$

Super Gold

Add together more than two numbers.

10) $56 + 132 + 448 =$ 11) $103 + 294 + 244 =$ 12) $823 + 47 + 302 =$