Year 5 Formal Methods of Calculation

Addition

- Add numbers up to and with more than 4 digits.
- Add decimals with 2 decimal places.

Step 1 + 3, 9 3 Step 2

Step 3

As always, start by adding the ones column. 4 + 6 = 10. Place a O in the ones column and re-group 10 to the tens column.

the tens column. Don't forget about the 10 that was re-grouped.

column. 200 + 900 = 1100. Put the 1 in the hundreds column and re-group the 1 in the thousands.

Add up all the digits in \implies Move on to the hundreds \implies Add up all the thousands to find the answer!

4000 + 3000 + 1000 = 8000.

4214 + 3936 = 8150.

Decimal Addition 59

Subtraction

- Subtract with at least 4 digits, including money and measure
- Subtract with decimal values

Step 1

Step 2

8 9 2 2,892 Decimal Subtraction

Start with the ones column and subtract the two numbers.

Moving on to the tens column, exchange from the hundreds column since you cannot subtract 3 tens from 2 tens. Once you have exchanged, you now have 12 tens minus 3 tens.

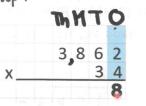
in the hundreds column, exchange again from the thousands column so the subtraction becomes 12 hundred minus 4 hundred.

Finally, subtract in the thousands column. 3 thousand take away 1 thousand. Then you have your final answer!

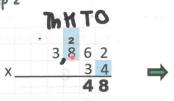
Multiplication

Long multiplication up to 4-digits by 2 digits

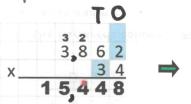
Step 1



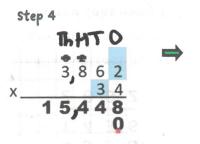
Step 2



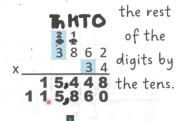
Step 3



Step 5



Multiply



Start by multiplying the ones digits.

Now multiply the tens digit in the ten column by 4.

Multiply the rest of the columns by 4.

Now we are multiplying each digit by the 3 in the tens column, as this digit is in the tens column it has a value of 30, so we need to use a 'O' as a place holder in the ones column.

Final 3 8 6 2 5,860

Add both multiplications together to get your answers.

Division

Divide numbers up to 4 digits by a one digit number, using the formal method of short division.

Express remainders as r, fractions and decimals,

Step 2

Final

$$7580 \div 5 = 1516$$

Remainders as 'r' and as a fraction

5 divided into 7 (thousands) goes once. 5 divided into 7

(thousands) goes once (one thousand) and 2 (thousands)

left over.

5 divided into 25

(hundreds) goes exactly 5 (hundreds) - no remain-

der.