

SUBTRACTION - YEAR 1 Subtracting within 20

VOCABULARY: minus, take away, subtract, subtraction equation, equal, family of facts, difference, fewer, more

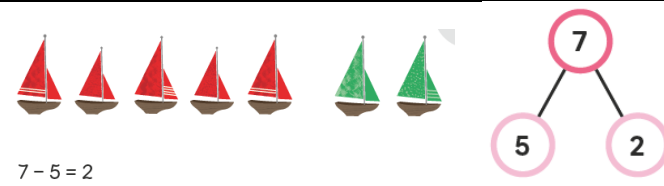
Mental calculation/recall of Subtraction facts:

*subtraction facts relating to number bonds for all numbers up to 20

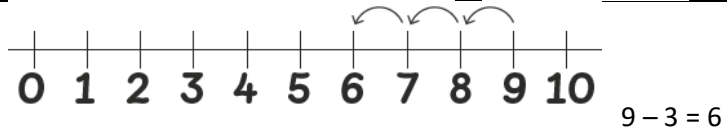
*crossing out



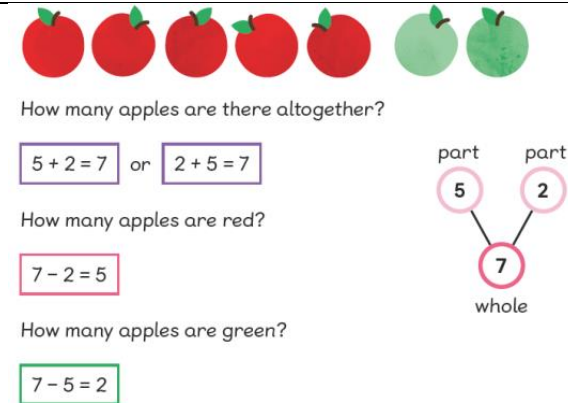
*subtracting by using number bonds and part-part-whole model



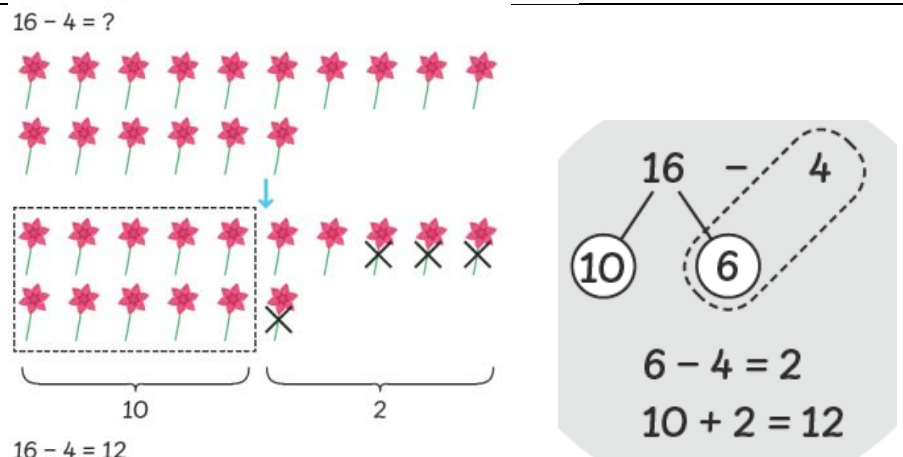
*counting back in ones



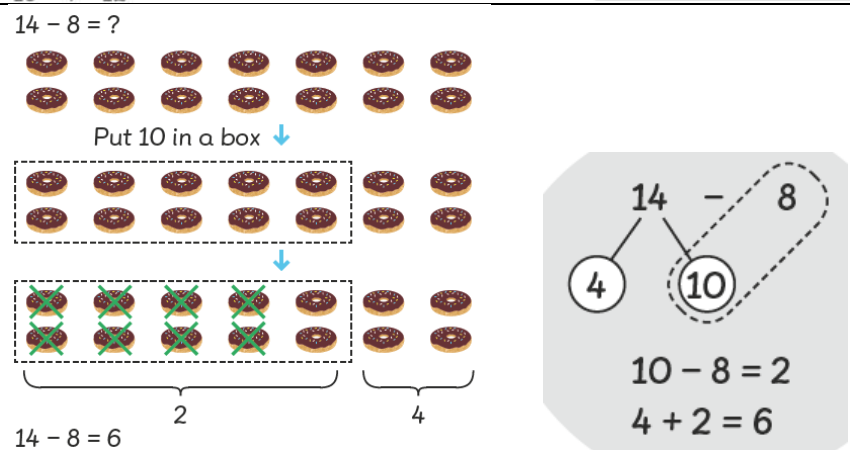
*relationship to addition



*2-digit subtract 1-digit, by partitioning the 2-digit into T/U, then subtracting the 1-digit number from the U, recombine (when U > 1-digit number)



*2-digit subtract 1-digit, by partitioning the 2-digit into T/U, then subtracting the 1-digit number from the T, recombine (when U > 1-digit number)



SUBTRACTION - YEAR 2 Subtracting within 100

VOCABULARY: partition, tens, units/ones, recombine

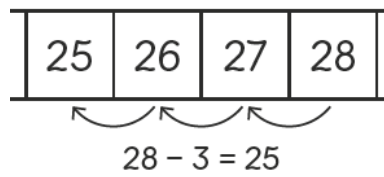
Mental calculation/recall of Subtraction facts:

*subtraction facts relating to number bonds for 100 (multiples of 10)

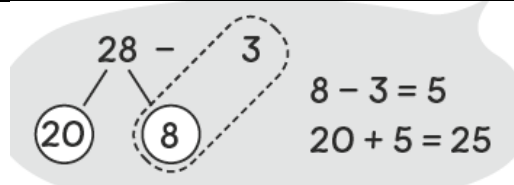
*using pairs to 10 to answer 2-digit multiple of 10 – 1-digit = []

[Y1: subtraction facts relating to number bonds for all numbers up to 20]

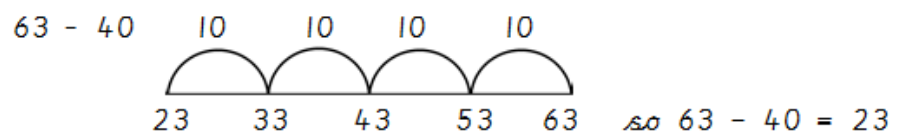
*2-digit – 1-digit, by counting back in ones



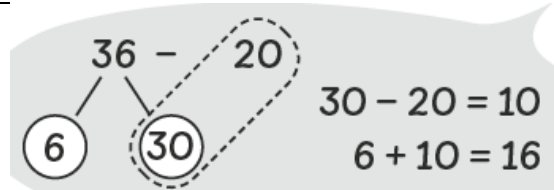
*2-digit – 1-digit, by partitioning the 2-digit number into T/U, subtracting the 1-digit number from the U, recombine



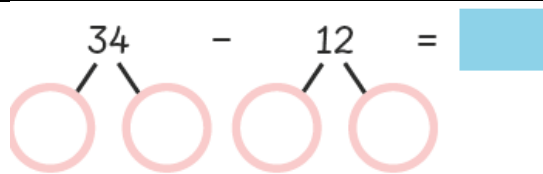
*2-digit – multiple of 10, by counting back in tens



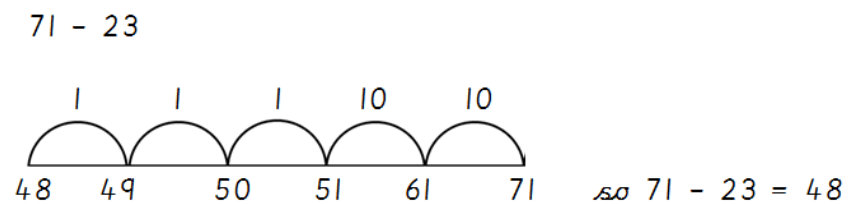
*2-digit – multiple of 10, by partitioning the 2-digit number into T/U, subtracting the multiple of 10 from the T, recombine



*2-digit – 2-digit, by partitioning into T/U, then subtracting the T and the U, recombining (when possible)



*2-digit – 2 digit, by counting back in tens and ones



SUBTRACTION - YEAR 3 Subtracting within 1000

VOCABULARY: hundreds

Mental calculation/recall of Subtraction facts:

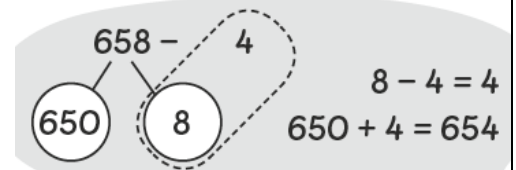
*subtraction facts relating to number bonds for 100

[Y2: subtraction facts relating to number bonds for 100 (multiples of 10), using pairs to 10 to answer 2-digit multiple of 10 – 1-digit = [], subtraction facts relating to number bonds for all numbers up to 20]

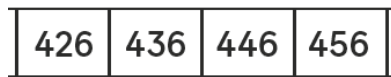
*subtracting a 1-digit number from a 3-digit number, by counting back in ones, or partitioning into HT/U, subtracting the U, recombining



$658 - 4 = 654$



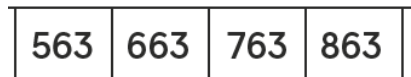
*subtracting a 2-digit multiple of 10 from a 3-digit number, by counting back in tens, or partitioning into HU/T subtracting the T, recombining



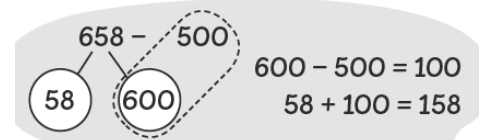
$456 - 30 = 426$



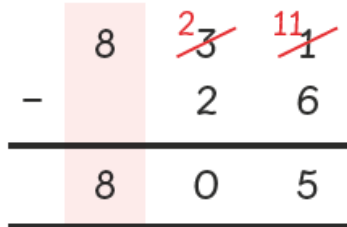
*subtracting a 3-digit multiple of 100 from a 3-digit number, by counting back in hundreds, or partitioning into TU/H subtracting the H, recombining



$863 - 300 = 563$

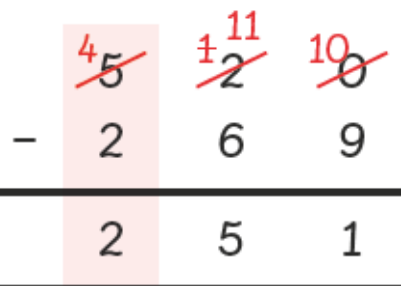


*3-digit – 2-digit, using column subtraction



1 – 6
Cross out 3, replace with 2
Cross out 1, replace with 11

*3-digit – 3-digit, using column subtraction



0 - 9
Cross out 2, replace with 1
Cross out 0, replace with 10

1 – 6
Cross out 5, replace with 4
Cross out 1, replace with 11

SUBTRACTION - YEAR 4 subtracting within 10,000

VOCABULARY: approximately equal to, thousands

Mental calculation/recall of Subtraction facts:

*using $A - B = (A+c)-(B+c)$ to make adjustments eg $378-143=380-145=235$ *using $A - B = (A-c)-(B-c)$ to make adjustments eg $563-224=560-221=319$

[Y3: subtraction facts relating to number bonds for 100, subtraction facts relating to number bonds for 100 (multiples of 10), using pairs to 10 to answer 2-digit multiple of 10 – 1-digit = [], subtraction facts relating to number bonds for all numbers up to 20]

*rounding to the nearest ...
to estimate

$$472 - 128 \approx 470 - 130 = 340$$

*4-digit – number with up to
4 digits, using column
subtraction

$$5743 - 2358$$

$$\begin{array}{r}
 5 7 4 3 \\
 - 2 3 5 8 \\
 \hline
 3 3 8 5
 \end{array}$$

⁶~~7~~ ¹³~~4~~ ¹³~~3~~

3 - 8

Cross out 4, replace with 3
Cross out 3, replace with 13

3 - 5

Cross out 7, replace with 6
Cross out 3, replace with 13*subtracting two amounts
of money using column
subtraction

$$\begin{array}{r}
 \pounds 4 0 5 \\
 - \pounds 1 2 5 \\
 \hline
 \pounds 2 8 0
 \end{array}$$

³~~4~~ ¹⁰~~0~~

SUBTRACTION - YEAR 5 Subtracting within 1,000,000, with up to 3dp

VOCABULARY: ten thousands, hundred thousands, decimal places, decimal point, tenths, hundredths, thousandths

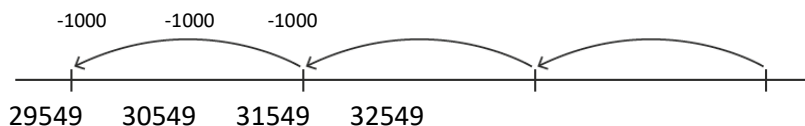
Mental calculation/recall of Subtraction facts:

*using subtraction facts and place value to mentally subtract numbers with up to 2dp

[Y4: using $A - B = (A+c)-(B+c)$ to make adjustments eg $378-143=380-145=235$, using $A - B = (A-c)-(B-c)$ to make adjustments eg $563-224=560-221=339$, subtraction facts relating to number bonds for 100, subtraction facts relating to number bonds for 100 (multiples of 10), using pairs to 10 to answer 2-digit multiple of 10 – 1-digit = [], subtraction facts relating to number bonds for all numbers up to 20]

*subtracting a multiple of a power of 10, by counting back in the power of 10

$$32549 - 3000$$



*6-digit – number with up to 6 digits, using column subtraction

$$\begin{array}{r}
 \begin{array}{cccccc}
 & 4 & 10 & 15 & 8 & 12 \\
 & / & / & / & / & / \\
 5 & 0 & 5 & 8 & 9 & 2 \\
 - & 3 & 8 & 6 & 4 & 6 \\
 \hline
 4 & 6 & 7 & 2 & 4 & 6
 \end{array}
 \end{array}$$

2 - 6

Cross out 9, replace with 8
Cross out 2, replace with 12

5 - 8

Cross out 5, replace with 4
Cross out 0, replace with 10
Cross out 10, replace with 9
Cross out 5, replace with 15

*subtracting two numbers with up to 3 decimal places, using column subtraction

$$\begin{array}{r}
 \begin{array}{cccc}
 & 8 & 9 & 11 & 14 \\
 & / & / & / & / \\
 9 & . & 0 & 2 & 4 \\
 - & 8 & . & 1 & 3 & 5 \\
 \hline
 0 & . & 8 & 8 & 9
 \end{array}
 \end{array}$$

4 - 5

Cross out 2, replace with 1
Cross out 4, replace with 14

1 - 3

Cross out 9, replace with 8
Cross out 0, replace with 10
Cross out 10, replace with 9
Cross out 1, replace with 11

SUBTRACTION - YEAR 6 Subtracting within 10,000,000, with tens of 1,000,000s, and with up to 3dp

VOCABULARY: millions, ten millions

Mental calculation/recall of Subtraction facts:

*mentally calculate with increasingly large numbers

[Y5: using subtraction facts and place value to mentally subtract numbers with up to 2dp, using $A - B = (A+c)-(B+c)$ to make adjustments eg $378-143=380-145=235$, using $A - B = (A-c)-(B-c)$ to make adjustments eg $563-224=560-221=319$, subtraction facts relating to number bonds for 100, subtraction facts relating to number bonds for 100 (multiples of 10), using pairs to 10 to answer 2-digit multiple of 10 - 1-digit = [], subtraction facts relating to number bonds for all numbers up to 20]

*subtracting two numbers up to 10,000,000 and with up to 3 decimal places, using column subtraction

$$4830979 \cdot 7 - 25425 \cdot 431$$

Need to write 0 in any incomplete decimal columns.

$$\begin{array}{r} 48\overset{2}{\cancel{3}}\overset{10}{\cancel{0}}979 \cdot \overset{9}{\cancel{7}}\overset{10}{\cancel{0}}\overset{10}{\cancel{0}} \\ - \quad \quad 25425 \cdot 431 \\ \hline 4805554 \cdot 269 \end{array}$$