Helping with Maths Calculations Getting ready for SATs

Countdown to success

277

2x2

A Parents' Guide



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Calculations: What strategies does my child use to add, subtract, multiply and divide?

Outlined in this leaflet are some of the methods used by children in calculations when they get to Y6. It is important to note that these are just some examples of calculation policies and those used in your child's school may be slightly different.

Your child needs to be secure in one method for addition, subtraction, multiplication and division. At the end of the leaflet is a progression of the types of numbers that they should be using when carrying out these operations.

If your child is finding this aspect of maths difficult, ask to see their class teacher to see if there is an alternative method that they can use or see if they can take you through the method that the school uses; chances are it will look very different to the method that you used at school yourself.

Addition

Formal compact method.

287	
45	
332	124.9
11	+ 117.25
of digits and decimals with 1 and 2 decimal places.	242.15
124.9 + 117.25 = 242.15	1 1

Subtraction

Use counting on to find the difference



The partitioned chunks are then either added mentally or using the column method



Children can use column method for addition if necessary. This can be extended to multiply three digit numbers.

Division

When children are secure in the method of using a number line to subtract chunks of numbers they can then move onto using formal chunking method.

$$5\sqrt{73} - 50 (10 \times 5)$$

$$\frac{23}{20}(4 \times 5)$$

$$73 \div 5 = 14 \text{ r3}$$

Continued over...

Addition

U + U (FS) TU + U (Y1) TU + multiples of 10 (Y1) TU + TU (Y2) HTU + TU (Y3) HTU + HTU (Y3/4) $\pounds.p + \pounds.p (Y4)$ U.t + U.t (Y5) U.th + U.th (Y5) HTU.thth + HTU.thth (Y6)Fractions + fractions (Y6/7)

Subtraction

U - U (FS) TU - U (Y1) TU - multiples of 10 (Y1) TU - TU (Y2) HTU - TU (Y3) HTU - HTU (Y3/4) $\pounds.p - \pounds.p (Y4)$ U.t - U.t (Y5) U.th - U.th (Y5) HTU.thth - HTU.thth (Y6) Fractions - fractions (Y6/7)

Multiplication

U x U (Arrays) (Y1/2) U x U (Y3) U x 10/100 (Y3) U x TU (Y3) ThHTU x 10/100 (Y4) HTU.th x 10/100/1000 (Y5) HTU x U (Y5) TU x TU (Y5) U.t x U (Y5) HTU x TU (Y6)

Division

U ÷ U (Sharing) (Y1/2) TU ÷ U (Sharing) (Y1/2) TU ÷ U (Y3) ThHTU ÷ 10/100 (Y4) TU ÷ U (Including remainders) (Y4) HTU.th ÷ 10/100/1000 (Y5) HTU ÷ U (Y5) U.t ÷ U (Y6) HTU ÷ TU (Y6/7) TU ÷ 0.t

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