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| **Year 1 KIRFs** | **Examples** |
| I can count in 1s within boundaries (Ext. Count back) | Can say 1, 2, 3, 4, 5, 6, 7, 8, 9 Can say 11, 12…19 21, 22…29 Can say 91, 92… 99 |
| I can count in 10s to 100 (Ext. Count back) | Can say 10, 20, 30, 40, 50, 60, 70, 80, 90, 100 Can answer “What comes after 60?” etc |
| I can count in 1s across boundaries (Ext. Count back) | Can say 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11… Can say 18, 19, 20, 21, 22… 68, 69, 70, 71, 72… |
| I can count in 2s to 20 (Ext. Count back) | Can say 2, 4, 6, 8, 10, 12, 14, 16, 18, 20 Can answer “What comes after 14?” etc |
| I can count in 5s (Ext. Count back) | Can say 5, 10, 15, 20, 25........80, 85, 90, 95, 100 Can answer “What comes after 45?” etc |
| I know all of the pairs of numbers that make 5 | 5 = 0+5 5 = 1+4 5 = 2+3 5 = 3+2 5 = 4+1 5 = 5+0 |
| I know all of the pairs of numbers that make 10 | 0+10=10 1+9=10 10 = 2+8 3+7=10 10 = 4+6 5+5=10 10 = 6+4 7+3=10 10 = 8+2 9+1=10 |
| I know all of the pairs of numbers that make 20 | 0+20=20 1 + 9 = 10, so 1+19 = 20 2 + 8 = 10, so 2 +18 = 20 3 + 7 = 10, so 3 + 17 = 20 4 + 6 = 10, so 4 + 16 = 20 5 + 5 = 10,... |
| I know all odd and even numbers up to 20 | Can say 1, 3, 5, 7, 9, 11, 13, 15, 17, 19 are odd Can say 2, 4, 6, 8, 10, 12, 14, 16, 18, 20 are even |
| I know all doubles to double 5 | 1+1=2 double 2 = 4 3+3=6 double 4 = 8 5+5=10 |
| I know all doubles to double 10 | double 6 = 12 7+7=14 double 8 = 16 9+9=18 double 10 = 20 |
| I know the halves of all even numbers to 10 | Half of 2=1 Half of 4=2 Half of 6=3 Half of 8=4 Half of 10=5 |
| I know the days of week in order | Can say Monday to Sunday in order. Can say the days in a ‘loop’ starting at any point: Thursday, Friday, Saturday…  Can answer “What day comes after Tuesday?” etc |

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| **Year 2 KIRFs** | **Examples** |
| All of 2x table facts 1x to 12x in random order | 1x2=2    2x2=4    3x2=6    2x4=8    5x2=10    2x6=12     7x2=14   2x8=16    9x2=18   2x10=20   11x2=22   2x12=24 |
| Count in 10s across boundaries (forwards & back) | 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120… 180, 190, 200, 210, 220…      780, 790, 800, 810, 820… |
| All of 10x table facts 1x to 12x in random order | 1x10=0 10x2=20 3x10=30 10x4=40 5x10=5 10x6=60  7x10=70 10x8=80 9x10=90 10x10=100 11x10=110 12x10=120 |
| All of 5x table facts 1x to 12x in random order | 1x5=5 2x5=10 5x3=15 4x5=20 5x5=25 5x6=30 7x5=35 5x8=40 9x5=45 5x10=50 11x5=55 12x5=60 |
| I know all of the subtraction facts from 10 | 10-0=10          9=10-1          10-2=8          7=10-3          10-4=6 5=10-5          10-6=4          3=10-7          10-8=2          1=10-9 |
| I know all of the subtraction facts from 20 | 20-19=1          20-18=2          20-17=3          20-16=4          20-15=5... ...and so on to....     20-3-17          20-2=18          20-1=19          20-0=20 |
| I know the halves of all odd numbers to 10 | Half of 1= a half          Half of 3= 1  ½ Half of 5=2 1/2         Half of 7=3 1/2 etc |
| I know all the multiples of ten that are addition pairs to 100 | 100+0=100        90+10=100        80+20=100        70+30=100      60+40=100      ...and so on to...      20+80=100        10+90=100       20+80=100 |
| I know the doubles of multiples of 10 up to 50 | Double 10=20     Two times 20=40        Double 30=60 Two times 40=80         Double 50=100 |
| I know the doubles of multiples of 5 up to 50 | Double 5=10        Two times 10=20        Double 15=30          Two times 20=40 ...and so on to..... Double 40=80        Two times 45=90        Double 50=100 |
| I know the halves of multiples of 10 up to 100 (Tens digit even) | Half of 20    40 ÷ 2   Half of 60   80 ÷ 2   Half of 100 |
| I know the halves of multiples of 10 up to 100 (Tens digit odd) | Half of 10    30 ÷ 2   Half of 50   70 ÷ 2   Half of 90 |
| I know the doubles of 2 digit numbers ending in 1, 2, 3 or 4 to 50 | Double 11, 12, 13, 14  Double 21, 22, 23, 24  Double 31, 32, 33, 34   Double 41, 42, 43, 44 |
| I know the inverse for all of the 2, 10 & 5 times table facts | 2÷2=1        2 = 4÷2        6÷2=3…        10÷10=1    2 = 20÷10   30÷10=3… 5÷5=1      2 = 10÷5     15÷5=3 |

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| **Year 3 KIRFs** | **Examples** |
| I know that 0.5 = ½ | 0.5 = 1/2   1.5 = 1 ½    2 ½ = 2.5… |
| I can convert between cm and mm | E.g. 7cm = 70mm     90mm = 9cm     27cm = 270mm     37mm = 3.7cm |
| I know all of the 3 times table facts | All of 3x table facts 1x to 12x in random order |
| I know all of the  4 times table facts | All of 4x table facts 1x to 12x in random order |
| I know all of the 8 times table facts | All of 8x table facts 1x to 12x in random order |
| I know how to use known number facts to solve problems with bigger numbers | E.g. 4 x 2 = 8, so 4 x 20 = 80     12 ÷ 3 = 4, so 1200 ÷ 3 = 400    3 + 7 = 10, so 300 + 700 = 1000… |
| I know the inverse for all of the 3 times table facts | 3÷3=1       6÷3=2       9÷3=3       12÷3=4       15÷3=5       18÷3=6       21÷3=7       24÷3=8       27÷3=9       30÷3=10       33÷3=11       36÷3=12 |
| I know the inverse for all of the 4 times table facts | 4÷4=1     8÷4=2     12÷4=3     16÷4=4     20÷4=5     24÷4=6     28÷4=7,32÷4=8     36÷4=9     40÷4=10     44÷4=11     48÷4=12 |
| I know the inverse for all of the 8 times table facts | 8÷8=1       16÷8=2       24÷8=3       32÷8=4       40÷8=5       48÷8=6       56÷8=7,64÷8=8       72÷8=9       80÷8=10       88÷8=11       96÷8=12 |

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| **Year 4 KIRFs** | **Examples** |
| I know all of the 11 times table facts | All of 11x table facts 1x to 12x in random order |
| I know all of the 6 times table facts | All of 6x table facts 1x to 12x in random order |
| I know all of the 12 times table facts | All of 12x table facts 1x to 12x in random order |
| I know all of the 7 times table facts | All of 7x table facts 1x to 12x in random order |
| I know all of the 9 times table facts | All of 9x table facts 1x to 12x in random order |
| I can multiply a decimal (with 1d.p.) by 10 | Eg    1.2x10=12       4.6x10=46       8.2x10=82       12.5x10=125       73.9x10=739 etc |
| I can multiply any whole number up to 100 by 10 | Eg    4x10=40       35x10=350      62x10=620       83x10=830       99x10=990 etc |
| I can multiply any whole number up to 100 by 100 | Eg    3x100=300       46x100=4600      78x100=7800       99x100=9900 etc |
| I can divide any whole number up to 100 by 10 | Eg    3÷10=0.3       34÷10=3.4       62÷10=6.2       77÷10=7.7       99÷10=9.9 etc |
| I can divide any whole number up to 100 by 100 | Eg   5÷100=0.05     28÷100=0.28       57÷100=0.57       81÷100=0.81       99÷100=0.99 etc |
| I know all of the decimal pairs to 1 (to 1 decimal place) | 0.1+0.9=1       0.2+0.8=1       0.3+0.7=1       0.4+0.6=1       0.5+0.5=1        0.6+0.4=1       0.7+0.3=1       0.8+0.2=1       0.9+0.1=1 |
| I can convert between pounds (£) and pence (p) | E.g. 235p = £2.35     89p = £0.89     £9.04 = 904p… |
| I know the inverse for all of the 11 times table facts | 11÷11=1   22 ÷ 11 = 2   33 ÷ 11 = 3   44 ÷ 11 = 4   55 ÷ 11 = 5   66 ÷ 11 -= 6   77 ÷ 11 = 7   88 ÷ 11 = 8   99 ÷ 11 = 9   110 ÷ 11 = 10   121 ÷ 11 = 11   132 ÷ 11 = 12 |
| I know the inverse for all of the 6 times table facts | 6÷6=1       12÷6=2       18÷6=3       24÷6=4       30÷6=5       36÷6=6       42÷6=7 48÷6=8       54÷6=9       60÷6=10       66÷6=11       72÷6=12 |
| I know the inverse for all of the 12 times table facts | 12÷12=1    24÷12=2    36÷12=3      8÷12=4     60÷12=5       72÷12=6       84÷12=7 96÷12=8       108÷12=9       120÷12=10       132÷12=11       144÷12=12 |
| I know the inverse for all of the 7 times table facts | 7÷7=1       14÷7=2       21÷7=3       28÷7=4       35÷7=5       42÷7=6       49÷7=7       56÷7=8       63÷7=9       70÷7=10       77÷7=11       84÷7=12 |
| I know the inverse for all of the 9 times table facts | 9÷9=1       18÷9=2       27÷9=3       36÷9=4       45÷9=5       54÷9=6       63÷9=7 72÷9=8       81÷9=9       90÷9=10       99÷9=11       108÷9=12 |

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| **Year 5 KIRFs** | **Examples** |
| I know all of my times tables and corresponding divisions | I can answer any question from the tables 2x, 10x, 5x, 3x, 4x, 9x, 11x, 6x, 7x, 8x, 12x |
| I can multiply any whole number to 100 by 1000 | Eg    4x1000=4000      25x1000=25000       59x1000=59000       99x1000=99000 etc |
| I can divide any whole number to 100 by a 1000 | Eg 7÷1000=0.007       45÷1000=0.045       61÷1000=0.061       99÷1000=0.099 |
| I can convert between m and km, & mm and m | E.g. 3450m = 3.45km     7.025km = 7025m     8m = 8000mm     539mm = 0.539m… |
| I know that 0.5 = ½, 0.25 = ¼ & 0.75 = ¾ | E.g. 3.5 = 3 ½        6 ¼ = 6.25        9.75 = 9 ¾ … |
| I know that 0.5/ ½ = 50%, 0.25/ ¼ = 25%   0.75/ ¾ = 75% | E.g. 75% = ¾      0.25 = 25%      ½ = 50% … |
| I know all of the decimal pairs to 10 (to 1 decimal place) | 1.0+9.0=10     1.1+8.9=10     1.2+8.8=10     1.3+8.7=10  ...and so on...   2.9+7.1=10     3.0+7.0=10  ...and so on to... 9.7+0.3=10     9.8+0.2=10     9.9+0.1=10 |
| I can X a decimal (to 2 d.p.) by 10 / divide a number with a ones digit by 10 | 0.3 x 10 = 3     10 x 0.24 = 2.4    0.07 x 10 = 0.7   … 8 ÷ 10 = 0.8   26 ÷ 10 = 2.6   342 ÷ 10 = 34.2   … |
| I can X a decimal (to 2 d.p.) by 100 / divide a 2-digit or 1 digit number by 100 | 100 x 0.9 = 90     0.56 x 100 = 56      100  x 0.08 = 8   … 70 ÷ 100 = 0.7   91 ÷ 100 = 0.91   5 ÷ 100 = 0.05 |
| I can X a decimal (to 2 d.p.) by 1000 / divide a 3, 2 or 1-digit number by 1000 | 0.5 x 1000 = 500   1000 x 0.48 = 480   0.09 x 1000 = 90   … 400 ÷ 1000 = 0.4   750 ÷ 1000 = 0.75   30 ÷ 1000 = 0.03 |
| I can count in 25s to 500 | Can say 25, 50, 75, 100, 125...and so on t0...450,475, 500 Can answer ”What comes after 325?” etc |
| I know all prime numbers to 10 | 2, 3, 5, 7 Can answer “What is the next prime number after 3?” |
| I know all square numbers to 12x12 | 1x1=1       2x2=4       3x3=9       4x4=16       5x5=25       6x6=36       7x7=49       8x8=64       9x9=81       10x10=100       11x11=121       12x12=144 |
| I know the square roots of all numbers to 144 | Square root of 1=1  Square root of 4=2    Square root of 9=3   Square root of 16=4 ...and so on to... Square root of 121=11    Square root of 144=12 |

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| **Year 6 KIRFs** | **Examples** |
| I know all of my times tables and corresponding divisions | I can answer any question from the tables 2x, 10x, 5x, 3x, 4x, 9x, 11x, 6x, 7x, 8x, 12x |
| I know all prime numbers to 20 | 2, 3, 5, 7, 11, 13, 17, 19 Can answer “What is the next prime number after 11?” |
| I know the cubes of all numbers up to 5 | 1x1x1 = 1   2x2x2 = 8     3x3x3 = 27     4x4x4 = 64     5x5x5 125 |
| I can convert between units of measurement  (cm/m/km,  g/kg,  l/ml/cl) | 100cm=1m so 320cm=3.2m etc                  1km=1000m so 453km=453000m   etc |
| I can convert fractions with denominators of 10 or 100 into decimals | 1/10=0.1    3/10=0.3    7/10=0.7 1/100=0.01     5/100=0.05     12/100=0.12     74/100=0.74 |
| I can convert simple fractions into percentages and decimals | Eg   ½=50%=0.5     ¼=25%=0.25     1/3=33.3%=0.33     1/5=20%=0.2   etc |
| I can find percentages of amounts using division | E.g.   10% by ÷10     1% by ÷ 100     50% by ÷ 2    25% by ÷ 4    20 % by ÷ 5 10% of 230          1% of 8300          50% of 42          25% of 320          20% of 360 |