|  |  |  |
| --- | --- | --- |
| **KS2 Arithmetic P1 2017****Multiplication and division** | **Knowledge/ strategy** | **Pupils who need further teaching to address gaps in understanding****Date:** |
| 505 ÷ 1 =  | Any ÷by 1Conceptual understanding/ mental |  |
|  | Any tables/ division factsNumber fact recall / inverse /mental |  |
|  | Any 3 digit ÷U Notice 581= 560+21 ( multiples of 7)Short division/ mental, check using facts |  |
|  | Any decimal to 2dpUsing understanding of PV / mental |  |
|  | Dividing simple fractions by U Conceptual understanding/ mental |  |
|  | Dividing simple fractions by U Noticing need for equivalent fractionConceptual understanding/ jotting/ mental |  |
|  | Any TUxU2 part calculation: (30x8) +(3x8) ; use of PVJottings, formal method ; check using facts &PV |  |
|  | Any multiple of 10 x multiple of 10Use related number facts &PV: 3x40 , 30x40, mental |  |
|  | Any HTUxUShort multiplicationCheck with facts eg 100x4; 60x4;7x4 |  |
|  | Any 4 digit x1000Using PV understanding/ mental |  |
|  | Any decimal to 1 dp x multiple of 100Use of related facts &PV: 9x2; 0.9x2, 0.9x200 |  |
|  | Formal method with HTUxTUCheck reasonableness of answer: 400x40/ 400x50 |  |

Key stage 2 Arithmetic Paper 2017: multiplication and division

|  |  |  |
| --- | --- | --- |
|  | Formal method with Th HTUxTUCheck reasonableness of answer: 4500x20/ 5000x20 |  |
|  | Formal method with HTU÷TUCheck reasonableness of answer with conceptual understanding of inverse and related facts: 17x ?=714 |  |
|  | Formal method with Th HTU÷TUCheck reasonableness of answer with conceptual understanding of inverse and related facts: 59x ?=2242 |  |
|  | Use of related facts: 10% of 500; 5% of 500; 1% of 500Jottings |  |
|  | Use of related facts: 15% of 100= 15; 15% of 1000= 150Jottings |  |
|  | Use of related facts: 50% of 460; 5% of 460 or 10% of 460 and 5% of 460Jottings |  |
|  | Conceptual understanding through arrayMethod |  |
|  | Any mixed number x TUTwo part calculationJotting |  |
|  | Order of operations |  |

Key stage 2 Arithmetic Paper 2017: multiplication and division cont/: