Year 5 2nd Autumn Half-Term Constant Difference For Parents & Carers | White Rose Maths

Date	Question
	a. 3259 + 304 + 20365 = b.1000 -187 = c.987 x 100 = d. 180 ÷ 100 =
	a.7392 + 418 + 2708 = b.7000 - 409 = c.230 × 100 = d.12 ÷ 10 =
	a. £73.26+98p+£64.51= b.£8 - £4.51 = c.406 × 100 = d.1290 ÷ 100 =
	a. $8+£3.56+19p = b.£30-£14.07 = c.? × 100 = 35 d.7200 ÷ 100=$
	a.£3.25+£203.65+50p= b.£20 - 871p $c.5.76 \times 10 = d.6090 \div 100 =$
	a.£8.73+£123.89+79p= b.£50-99p= c.? x 100 = 56 d.2030 ÷ 100 =

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Year 5 Recall +/-/x/÷	Ex. Mental Calculations	Mental Strategies +/-/x/÷		
	jottings if needed	how & when to apply strategies		
• sums and differences of decimals, e.g. 6.5 + 2.7, 7.8 - 1.3 • doubles and halves of decimals, e.g. half of 5.6, double 3.4 • what must be added to any four-digit number to make the next multiple of 1000, • what must be added to a decimal with units and tenths to make the next whole number, • Recall squares to 12× 12	 + or - a pair of two-digit numbers or three-digit multiples of 10, e.g. 30 + 80, 620 - 380, 350 + 360 + or - a near multiple of 10 or 100 to any two-digit or three-digit number mentally, e.g. 230 + 190 find the difference between near multiples of 100, e.g. 607 - 588, or of 1000, e.g. 6070 - 4087 (Jottings to help this calculation: count up the difference on a number line, bridging through key multiples of 100): 	 count on or back in Hs, Ts, Os and tenths (starting from any integer or decimal) partition: add Hs, Ts or Os separately, then recombine subtract by counting up from the smaller to the larger number (where efficient due to numbers close together or near multiples) + or - a multiple of 10 or 100 and adjust (e.g. 235 + 198 (+ 200 mentally and - 2); 964+88 (+ 90, then - 2); 621 - 39 (- 40 then + 1 back on) partition: double and adjust 		

- Recall division facts
 corresponding to tables up to 12
 × 12, and the related unit
 fractions, e.g. 7 × 9 = 63 so oneninth of 63 is 7 and one- seventh
 of 63 is 9
- \cdot + or any pairs of decimal fractions each with units and tenths, e.g. 5.7 + 2.5, 6.3 4.8
- multiply and divide two-digit numbers by 4 or 8, e.g. 26×4 , $96 \div 8$
- multiply two-digit numbers by 5 or 20,
 e.g. 320 × 5, 14 × 20 using doubling and halving
- multiply by 25 or 50, e.g. 48 × 25, 32 × 50
- double three-digit multiples of 10 to 500, e.g. 380×2 , and find the corresponding halves, e.g. $760 \div 2$
- find the remainder after dividing a two-digit number by a single-digit number, e.g. 27 ÷ 4 = 6 R
 3
- multiply and divide whole numbers and decimals by 10, 100 or 1000, e.g. 4.3×10 , 0.75×100 , $25 \div 10$, $673 \div 100$, $74 \div 100$
- multiply pairs of multiples of 10,
- e.g. 60×30 , and a multiple of 100 by a single digit number, e.g. 900×8
- divide a multiple of 10 by a single-digit number (whole number answers) e.g. 80 ÷ 4, 270 ÷ 3
- · find fractions of whole numbers or quantities,

- use knowledge of place value and related calculations.
- e.g. 6.3 4.8, using 63 48
- partition for calculation with time: count on or back in minutes and hours, bridging through 60 (analogue and digital times):
 Mental jottings as a 'time number line':
- multiply or divide by 4 or 8 by repeated doubling or halving
- form an equivalent calculation, e.g. to multiply by 5, multiply by 10, then halve; to multiply by 20, double, then multiply by 10
- use knowledge of doubles/halves and understanding of place value, e.g. when multiplying by 50 multiply by 100 and divide by 2 • use knowledge of division facts, e.g.

when to find a remainder

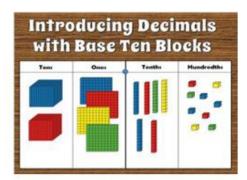
 use understanding that when a number is multiplied or divided by 10 or 100, its digits move one or two places to the left or the

- Recall percentage equivalents of one-half, one-quarter, threequarters, tenths and hundredths
- · Recall / find factor pairs to 100
- · Recall prime numbers up to 19

×	1	2	3	4	5	6	7	8	9	10	11	12
1		2	3	4	5	6	7	8	9	10	11	12
2	2		6	8	10	12	14	16	18	20	22	24
3	3	6	9	12	15	18	21	24	27	30	33	36
4	4	8	12	16	20	24	28	32	36	40	44	48
5	5	10	15	20	25	30	35	40	45	50	55	60
6	6	12	18	24	30	36	42	48	54	60	66	72
7	7	14	21	28	35	42	49	56	63	70	77	84
8	8	16	24	32	40	48	56	64	72	80	88	96
9	9	18	27	36	45	54	63	72	81	90	99	108
10	10	20	30	40	50	60	70	80	90	100	110	120
11	11	22	33	44	55	66	77	88	99	110	121	132
12	12	24	36	48	60	72	84	96	108	120	132	144

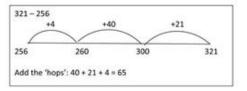
- e.g. 2/3 of 27, 4/5 of 70 kg
- find 50%, 25% or 10% of whole numbers or quantities,
- e.g. 25% of 20 kg, 10% of £80
- · find factor pairs for numbers to 100,
- e.g. 30 has the factor pairs 1 \times 30, 2 \times 15, 3 \times 10 and 5 \times 6





handreda	tens	ones	tenths	hundredths

- right relative to the decimal point, and zero is used as a place holder
- use knowledge of multiplication and division facts and understanding of place value, e.g. calculating with multiples of 10 · use knowledge of equivalence between fractions and percentages,
- e.g. to find 50%, 25% and 10%
- use knowledge of multiplication and division facts to find factor pairs
 ('Factor pairs' - starts with 1 and the number
- ('Factor pairs' starts with 1 and the number itself, then all the other possible pairs in order)



Prime Numbers

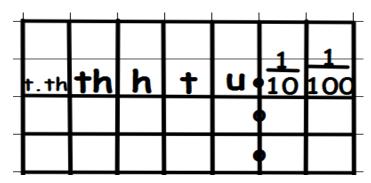
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

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Mental Strategies: multiply and divide whole numbers and decimals by 10, 100 or 1000... \times 10 jump 1 column to larger left \times 100 jump 2 columns to larger left

÷ 10 jump 1 column to reduced right ÷ 100 jump 2 columns to reduced right

Ex. a)
$$74 \times 10 = b$$
) $740 \times 100 = c$) 4.3×1000 ,



Constant difference method opposite to aid subtraction.

Calculation Homework - Policy on ... The Redeemer Website

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Wk 1:	a.	3259 + 304 + 20365	= b.	1000 - 187 =
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c.
$$230 \times 100 =$$

c.
$$? \times 100 = 35$$

c.
$$? \times 100 = 56$$



No exchange needed

3/6/12 times tables