MATHS- MULTIPLICATION AND DIVISION B r1 4 6425 YEAR 5 4 7 Х 4 5 8 44975

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FACTORS

RECAP

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- Recall division facts for multiplication tables up to 12 × 12
- Find factor pairs of a given number
- Understand the commutativity of multiplication
- Multiply and divide a two-digit number by 10, 100
- Muultiply a three-digit number by a one-digit number using short multiplication

CRUCIAL KNOWLEDGE

- Multiply and divide numbers mentally drawing upon known facts
- Multiply and divide whole numbers and those involving decimals by 10, 100 and 1000
- Multiply numbers up to 4 digits by a one- or two-digit number using a formal written method, including long multiplication for two-digit numbers
- Divide numbers up to 4 digits by a one-digit number using the formal written method of short division and interpret remainders appropriately for the context
- Solve problems involving addition, subtraction, multiplication and division and a combination of these, including understanding the meaning of the equals sign.

EXTENDED KNOWLEDGE

Solve reasoning and problem solving questions using the above.

multiply	a mathematical operation where a number is added to itself a number of times	factor	a whole number is a smaller whole number which can be multiplied with another whole number to produce the first whole number
divide, division, dividend, divisor	to divide or division is sharing or grouping a number into equal parts	short division	arithmetical division in which the quotien is written directly without a succession of intermediate workings
product	the result when two numbers are multi-	long multiplica- tion	arithmetical division in which the divisor has two or more figures, and a series of workings is made as successive groups of digits of the dividend are divided by the
commutative	involving the condition that a group of quantities connected by operators gives		divisor, to avoid excessive mental calcula- tion
	the same result whatever the order of the quantities involved, e.g. $a \times b = b \times a$	estimate	If you estimate a quantity or value, you make an approximate judgment or calcula

Form	nal methods of mu				
3741 x 6 becomes 3 7 4 1	485 ÷ 11 becomes 4 4 r1	37 x 26 becomes 2 3 4 X 2 6	134 x 27 becomes 2 2 1 3 4 X 2 7	multiply times groups of lots of product repeated addition	P
X 6 2 2 4 4 6 4 2 2 4 4 6	11 4 8 5	A Z B 6 8 0 2 0 4 8 8 4	2 6 8 0 9 3 8 3 6 1 8	divide division share shared by equal	