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Progression in Addition



Progression in Subtraction





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Progression in Multiplication

X

Using pictures and obje	cts		
2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2			5 10 15 20 25
Make the queue twice of	s long		
		3 lots of 2 i 2 + 2 + 2)	s the same as 2 lots of 3 = (3 + 3)
Recording your number "I know that double 5 is 10." What is the valu 2p coins?	work and using known fac Place value count e of six	ts Mental mu ers 10 x 3	Itiplication using partitioning: $14 \times 3 =$ $= 30$ $4 \times 3 = 12$ 30 + 12 = 42
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$			
$3 \times 2 = 6$ $3 \text{ lots of } 2$ $1 \ 2 \ 3 \ 4 \ 5 \ 6 \ 7 \ 8$	12×5 $40 \ 41 \ 42 \ 43 \ 44 \ 45 \ 46 \ 47 \ 48 \ 49 \ 50 \ 51 \ 52 \ 53 \ 54 \ 55 \ 5$ $10 \ \times 5$ Partition and use number 1 $10 \ \times 5 = 50$ and 2 x	5 6 57 58 59 50 ine 5 = 10	7×18 7×10 7×8 70 + 56 = 126
Number track	Marked number lir		Empty number line
Grid method	Expan	ded method	Place value counters
38 x 7 X 30 8 7 210 56	Links to $30 + 8$ $\frac{X - 7}{2 + 10}$ $\frac{5 - 6}{2 - 6 - 6}$	8 x 7 (30 x 7 = 210) (8 x 7 = 56)	24 x 6 20 4 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Short multiplication Long multiplication			
$24 \times 6 \text{ becomes}$ $24 \times 6 \text{ becomes}$ $\frac{2}{1} \times 6 \text{ becomes}$ $\frac{1}{2} \times 6 \text{ becomes}$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	to $24 \times 16 \text{ becomes}$ $2^{2} \times 16 \text{ becomes}$ $\frac{2}{2} \times 16 \text{ becomes}$ $\frac{2}{2} \times 16 \text{ becomes}$ $\frac{1}{2} \times 16 \text{ becomes}$ $\frac{1}{2} \times 16 \text{ becomes}$ $\frac{1}{3} \times 16 \text{ becomes}$ $\frac{1}{3} \times 16 \text{ becomes}$	$124 \times 26 \text{ becomes}$ $1 2 4 \times 26 \text{ becomes}$ $1 2 4 \times 2 6 \text{ becomes}$ $\times 2 6 \text{ c}$ $7 4 4 \text{ c}$ $2 4 8 0 \text{ c}$ $3 2 2 4 \text{ c}$

Progression in Division



