

MATH

Reference Sheets

Operation Solving Strategies

	Algorithm	Open Number Line	Friendly Numbers	Expanded Form
Addition	$\begin{array}{r} 658 \\ + 26 \\ \hline 84 \end{array}$	$46 + 18 = 64$ 	$47 + 26$ $3 + 20$ $47 + 3 = 50$ $50 + 23 = 73$ $47 + 26 = 73$	$453 + 374$ $400 + 300 = 700$ $50 + 70 = 120$ $3 + 4 = 7$ $453 + 374 = 827$
Subtraction	$\begin{array}{r} 674 \\ - 36 \\ \hline 38 \end{array}$	$73 - 17 = 56$ 	Chunking $480 - 235$ $480 - 200 = 280$ $280 - 30 = 250$ $250 - 5 = 245$ $480 - 235 = 245$	Decompose & Compose $263 - 121 = 142$ $200 - 100 = 100$ $60 - 20 = 40$ $3 - 1 = 2$
Multiplication	$\begin{array}{r} 354 \\ \times 28 \\ \hline 1432 \\ + 1080 \\ \hline 1512 \end{array}$	Box Method $23 \times 42 = 966$ 	Array $4 \times 5 = 20$ 	Equal Groups $3 \times 6 = 18$
Division	$\begin{array}{r} 143 \\ 2 \overline{) 286} \\ \underline{-20} \\ 08 \\ \underline{-8} \\ 06 \\ \underline{-6} \\ 0 \end{array}$	Distributive Property $112 \div 8 = ______$ $(80 + 32) \div 8$ $(80 \div 8) + (32 \div 8)$	Partial Quotients $143 \div 2$ $2 \overline{) 286}$ $\underline{-200}$ 86 $\underline{-80}$ 6 $\underline{-6}$ 0 add $\times 100$ $\times 40$ $\times 3$	Box Method $426 \div 3$ $100 + 40 + 2 = 142$ $426 \div 3 = 142$