

# Teaching Adults to Make Sense of Number: Strategies Progressions

## Additive Strategies Activity Cheat Sheet

Activity	What do learners do?	Additive strategies	Where do I find it?	Can I use it? Rate: ✓ ? ✗
Counting on and back	Count on in ones to solve problems; Learn that you don't have to start at number one	Step 2	P. 19	
Addition and subtraction strategies I	Use number lines to develop addition and subtraction partitioning strategies for two-digit by one-digit problems	Step 3	P. 22	
Addition and subtraction strategies II	Use number lines to develop addition and subtraction partitioning strategies for multi-digit problems	Step 4	P. 25	
Adding decimals	Use strategies, traditional written methods and calculators to solve addition problems using decimals.	Step 5	P. 28	
Subtracting decimals	Use strategies, traditional written methods and calculators to solve subtraction problems using decimals.	Step 5	P. 30	

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## Multiplicative Strategies Activity Cheat Sheet

Activity	What do learners do?	Multiplicative strategies	Where do I find it?	Can I use it? Rate: ✓ ? ✗
Skip counting	Skip count in twos, threes, fives to solve simple problems; Begin to learn the 2, 3, and 5 times tables.	Step 2	P. 32	
Understanding multiplication	Identify unknown multiplication facts; Use known facts to develop recall of unknown facts	Step 3	P. 35	
Deriving multiplication and division facts	Use already known facts to derive and extend knowledge of multiplication facts they need for quick recall	Step 3	P. 37	
Multiplication strategies	Develop mental strategies for solving multiplication problems with single-digit multipliers	Step 4	P. 39	
Division strategies	Develop mental strategies for solving division problems with single-digit divisors	Step 4	P. 41	
Multiplying options	Use strategies, traditional written methods and calculators to solve multiplication problems.	Step 5	P. 43	
Dividing options	Use strategies, traditional written methods and calculators to solve division problems.	Step 5	P. 46	
Multiplying with decimals	Use estimation strategies and calculators to solve multiplication problems using decimals	Step 6	P. 49	
Dividing with decimals	Use estimation strategies and calculators to solve division problems using decimals	Step 6	P. 51	

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## Proportional Reasoning Strategies Activity Cheat Sheet

Activity	What do learners do?	Proportional reasoning strategies	Where do I find it?	Can I use it? Rate: ✓ ? ✗
Ratios I	Develop an understanding of simple ratios; learn to identify ratios for given quantities and vice versa	Step 4	P. 53	
Fractions of numbers I	Develop an understanding of how to find a fraction of a whole number where the answer is also a whole number	Step 4	P. 55	
Ratios II	Develop an understanding of more complex ratios	Step 5	P. 58	
Fractions of numbers II	Develop an understanding of how to find a fraction of a whole number where the answer is also a fraction	Step 5	P. 61	
Rates and proportions	Apply understanding of ratios to rates and proportions	Step 6	P. 64	