

Addition and subtraction assessment			
No. of learners	Club name	Notes	
Grade	Date		

Spectrum

Constrained methods <i>Inefficient (I)</i> Use of fingers, tally marks, circles, drawings of any kind	Less constrained <i>Somewhere in between (IE)</i> Breaking down into place value, using some kind of expanded notation	Semi fluent methods <i>Another strategy such as splitting, working with a friendly number</i>	Flexible fluency <i>Efficient (E)</i> Use of known addition and subtraction facts, appropriate use of algorithms for 2 and 3 digit problems
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Assessment Profile

	CONSTRAINED		LESS CONSTRAINED		SEMI FLUENT		FLEXIBLE FLUENCY		OVERALL	
	Wrong answer	Correct answer	Wrong answer	Correct answer	Wrong answer	Correct answer	Wrong answer	Correct answer	No. of CORRECT answers	Predominant strategy used (I, IE or E)
Addition Questions										
1.1 $3 + 4 = 7$										
Tallys										
Totals										
1.2 $8 + 6 = 14$										
Tallys										
Totals										
1.3 $23 + 18 = 41$										
Tallys										
Totals										
1.4 $55 + 67 = 122$										
Tallys										
Totals										
1.5 $104 + 97 = 201$										
Tallys										
Totals										
Subtraction Questions										
2.1 $8 - 2 = 6$										
Tallys										
Totals										
2.2 $12 - 5 = 7$										
Tallys										
Totals										
2.3 $23 - 18 = 5$										
Tallys										
Totals										
2.4 $467 - 43 = 424$										
Tallys										
Totals										
2.5 $305 - 97 = 208$										
Tallys										
Totals										

NOTE: Learners using fingers to calculate answers
Observe learners as they are writing the assessment. Note learner initials on a blank 4 operations script under the relevant question number
Then allocate a tally mark to the Constrained Methods column for that learner

Multiplication and division assessment				
No. of learners		Club name		Notes
Grade		Date		

Spectrum			
Constrained methods <i>Inefficient (I)</i> Use of fingers, tally marks, circles, drawings of any kind	Less constrained <i>Somewhat in between (IE)</i> Skip counting, repeated addition	Semi fluent methods <i>between (IE)</i> Arrays, breaking down into expanded notation	Flexible fluency <i>Efficient (E)</i> Use of known multiplication and division facts, appropriate use of algorithms for 2 and 3 digit problems

Assessment Profile										
	CONSTRAINED		LESS CONSTRAINED		SEMI FLUENT		FLEXIBLE FLUENCY		OVERALL	
	Wrong answer	Correct answer	Wrong answer	Correct answer	Wrong answer	Correct answer	Wrong answer	Correct answer	No. of CORRECT answers	Predominant strategy used (I, IE or E)
Multiplication Questions										
3.1 $2 \times 4 = 8$										
Tallys										
Totals										
3.2 $5 \times 3 = 15$										
Tallys										
Totals										
3.3 $12 \times 4 = 48$										
Tallys										
Totals										
3.4 $24 \times 6 = 144$										
Tallys										
Totals										
3.5 $120 \times 15 = 1800$										
Tallys										
Totals										
Division Questions										
4.1 $6 \div 3 = 2$										
Tallys										
Totals										
4.2 $18 \div 2 = 9$										
Tallys										
Totals										
4.3 $24 \div 3 = 8$										
Tallys										
Totals										
4.4 $75 \div 3 = 25$										
Tallys										
Totals										
4.5 $120 \div 15 = 8$										
Tallys										
Totals										

NOTE: Learners using fingers to calculate answers
 Observe learners as they are writing the assessment. Note learner initials on a blank 4 operations script under the relevant question number
 Then allocate a tally mark to the Constrained Methods column for that learner