Fluency Tests Educator Notes

- This file contains these 7 fluency tests.
- The table below describes each test, and details the time allocation and total marks for the test.
- Each test has space underneath to enter the learner scores. See below for how to score the tests.
- You can print the whole file or just the test that you require. Some pages have 2 or 4 tests per page to save on printing costs.
- The tests can be printed in black and white

Test type	Description	Time allocation	Test out of ¹
1. Add and subtract to 10	Number range up to 10 Use the numbers in the shaded header rows and shaded columns to add / subtract e.g. $2 + 3 = 5$ and $10 - 2 = 8$	1 minute for add 1 minute for subtract	48
2. Doubling	Double the shaded number e.g. double 4 is 8, double 2 is 4	1 minute	17
3. Halving	Halve the shaded number e.g. half 4 is 2, half 2 is 1	1 minute	17
4. Add / subtract 10	Add 10 to / subtract 10 from the shaded number. e.g. $5 + 10 = 15$, $12 - 10 = 2$	1 minute	20
5. Add / subtract 100	Add 100 to / subtract 100 from the shaded number. e.g. 5 + 100 = 105, 102 – 100 = 2	1 minute	20
6. Add and subtract to 20	Number range up to 20 Use the numbers in the shaded header rows and columns to add / subtract e.g. $2 + 3 = 5$ and $10 - 2 = 8$	2 minutes for add 2 minutes for subtract	58
7. Add / subtract Tasks	Mixture of horizontal addition and subtraction sums from 1 digit up to 3 digits	15 minutes	10

Scoring the tests and evaluating progress

Each test can give 3 different scores:

- 1. Actual mark: number of answers the learners got right in the test. A simple overall mark.
- 2. Completion %: number of answers the learners actually completed
- 3. Accuracy %: number of correct answers out of those completed

The completion and accuracy percentages allow one to track 2 things:

- How quickly they are answering in the given time period (giving a *completion rate*)
- How accurate they are in answering in that time (giving an accuracy rate)

This means that you can compare these scores and rates when the test is re-administered again, to see where the progress is coming from. In some cases, learners may complete more or the entire test (100% completion) but may not be accurate with that speed. In some cases, learners do not complete the whole test, but what they complete they get right (100% accuracy).

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¹ Note: the sample sum in each test is not scored

An example

Using an example for the doubling test and a hypothetical learner these 3 different scores would be:

Test Name	Out of	1. Number Correct (and score)	2. Number Answered (Completion %)	3. Number correct from those completed (Accuracy %)
1 st Doubling test	17	7	10 (58%)	7
		(7 out of 17 = 41%)		(7 out of 10 correctly
				answered 70%)

From the scores above, we can see that although the learner got 41% for doubling, he/she actually completed 58% of the test in the given time, and of that 58%, got 70% correct. This gives a totally different perspective on the 41% overall score.

Test Name	Out of	1. Number Correct (and score)	2. Number Answered (Completion %)	3. Number correct from those completed (Accuracy %)
2 nd Doubling test	17	10	15 (88%)	12
		(10 out of 17 = 58%)		(12 out of 15 correctly
				answered 80%)

Continuing with the example, in a second administration of the doubling test in another term, the learner gets 58% overall, we can see that his/her completion rate has increased by 30% (almost a third more) from 58% to 88% and his/her accurate rate has increased by 10% from 70% to 80%. This is indeed progress.

Add and subtract to 10

Do as many of the addition sums as you can in 1 minute.

Then, when your teacher tells you to, do as many of the subtraction sums as you can in 1 minute. One sum has been done for you.

Nan	ne				Date					SA FRACY CHAIR	
Add +	2	4	1	0	3	Minus - 10		8	7	9	6
3	5					2	8				
5						4					
4				5							
6				3							
7						6					
Sco	re out o	of 48		Number completed				Nun	nber co	rrect	

Add and subtract to 10

Do as many of the addition sums as you can in 1 minute.

Then, when your teacher tells you to, do as many of the subtraction sums as you can in 1 minute. One sum has been done for you.

Nam						Date					SA NUMERACY CHAIR
Add +	2	4	1	0	3	Minus - 10		8	7	9	6
3	5					2	8				
5						4					
4						5					
6						3					
7				6		6					
Sco	re out o	of 48		Number completed				Nun	nber coi	rect	

Add and subtract to 20

Do as many of the addition sums as you can in 2 minutes.

Then, when your teacher tells you to, do as many of the subtraction sums as you can in 2

minutes. One sum has been done for you.

Nar	ne:					Da	te:				SA NUMERACY-CHAR
Add +	2	7	8	9	5	Minus - 20		19	11	13	16
5						10					
8						8	12				
6						7					
7						6					
9				18		5					
Sco	re out c	of 48	Num			mber completed			nber co	rrect	

Add and subtract to 20

Do as many of the addition sums as you can in 2 minutes.

Then, when your teacher tells you to, do as many of the subtraction sums as you can in 2

minutes. One sum has been done for you.

Nar	ne:					Da	te:				SA NAMERACY-CHAR
Add +	2	7	8	9	5	Minus -	20	19	11	13	16
5						10					
8						8	12				
6						7					
7						6					
9				18		5					
Sco	re out c	of 48		Number completed				Nun	nber co	rrect	

Doubles Double each shaded number. One sum has been done for you.

Name						Date					SA WANTERACY CHAR
5		4		2	4	6		7		8	
15		11		12		13		17		14	
16		18		22		25		24		34	
Score	out of	out of 17 Number co						Nun	nber co	rrect	

Halves Halve each shaded number. One sum has been done for you.

Name						Date	J			SA NOMERACY-CHAR
6		4		2	1	6	10		8	
16		14		12		16	22		24	
100		50		34		1000	500		26	
Score	out of	out of 17 Number co					Nun	nber co	rrect	

Doubles Double each shaded number. One sum has been done for you.

Name						Date			SA SA WIMERACY CHAR		
5		4		2	4	6		7		8	
15		11		12		13		17		14	
16		18		22		25		24		34	
Score	out of	out of 17 Number c						Nun	nber co	rrect	

Halves Halve each shaded <u>number</u>. One sum has been done for you.

Name					Date	J			SA WUMERACY-CHAIR
6		4	2	1	6	10		8	
16		14	12		16	22		24	
100		50	34		1000	500		26	
Score	out of	17	Num	ber con	npleted	Nun	nber co	rrect	

Add and subtract 10 - Add or subtract 10 to each shaded number. Do as many as you can in 1 minute. One sum has been done for you.

Name						Date		SA NOMERACY CHAR			
Add	10	5	15	4		Minus 10		10		12	2
2		9		14		19		25		65	
36		42		99		98		108		205	
102		410		600		327		512		700	
Score	Score out of 20			Num	ber con	npleted		Num	nber co	rrect	

Add and subtract 10 - Add or subtract 10 to each shaded number. Do as many as you can in 1 minute. One sum has been done for you.

Name	Date										
Add	10	5	15	4		Minus	s 10	10		12	2
2		9		14		19		25		65	
36		42		99		98		108		205	
102		410		600		327		512		700	
Score out of 20 Number con			npleted		Num	nber co	rrect				

Add and subtract 10 - Add or subtract 10 to each shaded number. Do as many as you can in 1 minute. One sum has been done for you.

Name						Date					SA NUMERACY CHAR
Add	10	5	15	4		Minus	s 10	10		12	2
2		9		14		19		25		65	
36		42		99		98		108		205	
102		410		600		327		512		700	
Score out of 20 Number			ber con	mpleted Number correc			rect				

Add and subtract 100 - Add or subtract 100 to each shaded number. Do as many as you can in 1 minute. One sum has been done for you

Name						Date					SA SUMERACY CHAR
Add ²	100	5	105	4		Minus	s 100	100		102	2
3		9		13		109		125		165	
36		42		99		198		208		308	
110		420		600		452		547		1000	
Score out of 20				Number completed				Number correct			

Add and subtract 100 - Add or subtract 100 to each shaded number. Do as many as you can in 1 minute. One sum has been done for you

Name							Date				
Add 1	100	5	105	4		Minus	s 100	100		102	2
3		9		13		109		125		165	
36		42		99		198		208		308	
110		420		600		452		547		1000	
Score out of 20			Number completed				Number correct				

Add and subtract 100 - Add or subtract 100 to each shaded number. Do as many as you can in 1 minute. One sum has been done for you

Name						Date					SA NUMERACY CHAR
Add [^]	100	5	105	4		Minus	s 100	100		102	2
3		9		13		109		125		165	
36		42		99		198		208		308	
110		420		600		452		547		1000	
Score out of 20 N			Numb	Number completed			Number correct				

Add/subtract Tasks. Do as many of	of these sums as y	ou can in 15 minutes
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Nar	otract Tasks. Do as many of these sums ne:	1	te:
	stion 1: Calculate. Use the space to		
	3 + 4 =		8 + 6 =
1.3	23 + 18 =	1.4	55 + 67 =
1.5	104 + 97 =		
Que	stion 2: Calculate. Use the space to s	show v	your workings if you need to
	8 – 2 =		12 – 5 =
2.3	23 - 18 =	2.4	467 - 43 =
2.5	305 - 97 =		

Note how much time learner used to complete these. i.e. note the time elasped since they started. Number Number Score out of 10: completed correct