Reviewing and improving teacher-written assessments

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Primary & EC Mathematics Education Conference



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Teacher-written tests

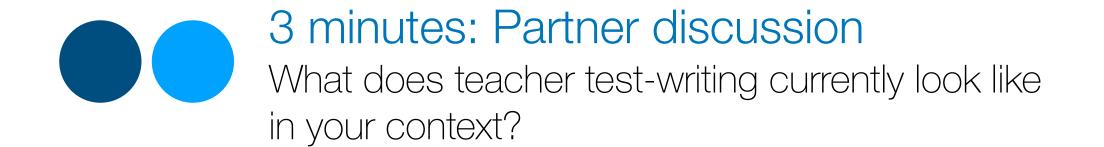
Low-stakes teacher-written tests

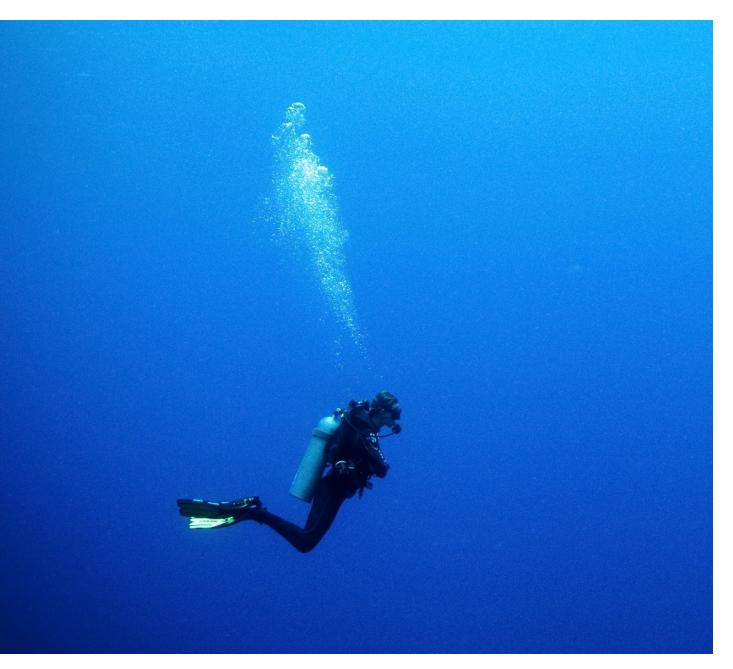
Skills/knowledge to be assessed

> write a test/task

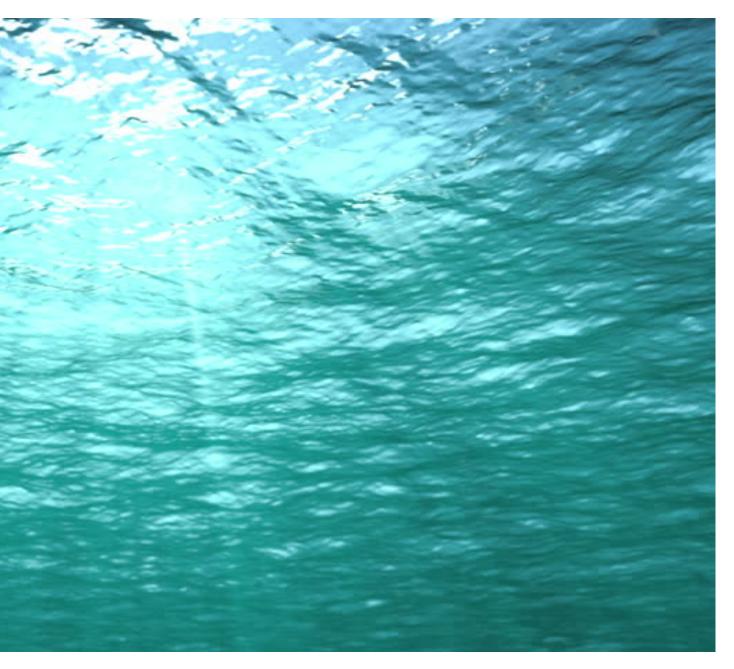
Take an existing test/task

> check that it assesses skills/ knowledge





You're already deep into this work.



Today is about getting clarity on quality.

Take an existing test/task

> check that it assesses the skills/ knowledge

Take an existing test/task

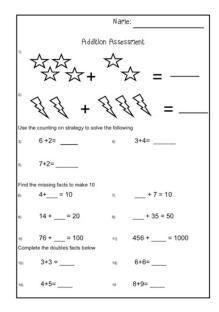
> check the extent to which the data will be reliable



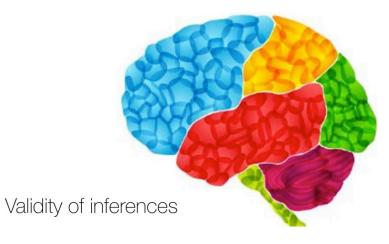


Validity of inferences

Teachers need skills/knowledge to consider this relationship







3 minutes: What is this test assessing?

Time Assessment Name: Date: (i) Draw a clock with any time on it: Write answers to the following: (iii) Write answers to the following: (iiii) Write answers to the following: (iiii) Write answers to the following: (iiiii) Write answers to the following: (iiiiiii) Write answers on your clock? (iiiiiiiii) Write time does your clock show? (iiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiii		Draw this time on a digital and analogue clock: <u>Eminutes to 5.</u>
Image: Second	Image: Second	



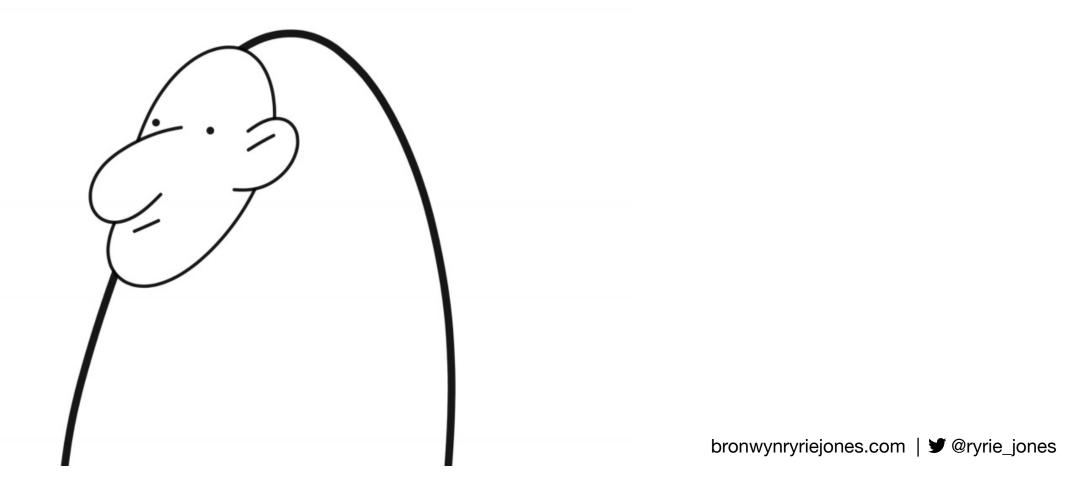
We have general ideas about what we are testing.

Now let's determine the exact skills being assessed.

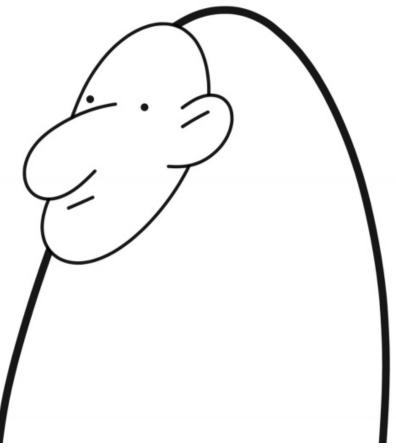
In pairs, match each skill to a test item.

e on a calendar Reads 2.00 d	on a clock face Writes	months of the ye	ar Shades single da
Names day before Friday	shades single date on a ca	lendar Reads	6.45 on a clock face
on a clock face Reads 2.00 d	on a clock face Writes	months of the ye	ar Names day befo
Names day before Friday	shades single date on a ca	lendar Reads	6.45 on a clock face

Hunch about quality?



A close look at a test can support a range of hunches.



Data analysis tells us more.



1		1. Draws time on an analogue clock	2. States use of clock	3. Recalls numbers on clocks	4. Describes function of numbers on a clock	5. Reads time of clock (chosen by student)	6. Identifies activity linked to a time	7. Writes all days of the week	8. Writes months of the year	9. Names day before Friday	10. Names month before April	11. Reads 2.00 on a clock face	12. Reads 9.30 on a clock face	13. Reads 11.15 on a clock face	14. Reads 2.20 on a clock face	15. Reads 6.45 on a clock face	16. Shades single date on a calendar	17. Links date to a day given on calendar	18. Identifies last day of month on a calendar	19. Names month after June	20. Links date to a day (not given on calendar)	21. Adds time across an hour (12.51 + 13)	22. Identifies duration between two given times	23. Represents 4.52 on a digital clock	24. Represents 4.52 on a clock face	Total
2	Gouri A	1								[0
3	Avia B			18	-													-								0
4	Claudia C																									c
	Samuel D																									c
	Mitchell E						<u> </u>						-									-				C
	Nayomey F		6	1	2		2 2		<u> </u>							-				6 m					- 2	0
	Amy J																_									0 0 0
	Kate A			8	-					1,		i 8														
	Nathaniel L				-					-			-			-	-						-			0
	Aaliyah P	8 - 38							<u> </u>	4		5. 51			6 - 26	-	10	2 - 12		2			2 31		25	0
	Maya P	12 80										- 2	-							2 - 21			5 25	-		0
13	Hamish W																									0

1		1. Draws time on an analogue dock	2. States use of clock	3. Recalls numbers on clocks	4. Describes function of numbers on a clock	5. Readstime of clock (chosen by student)	6. Identifies activity linked to a time	7. Writes all days of the week	8. Writes months of the year	9. Names day before Friday	10. Names month before April	11. Reads 2.00 on a clock face	12. Reads 9.30 on a clock face	13. Reads 11.15 on a clock face	14. Reads 2.20 on a clock face	15. Reads 6.45 on a clock face	16. Shades single date on a calendar	17. Links date to a day given on calendar	18. Identifies last day of month on a calendar	19. Names month after June	20. Links date to a day (not given on calendar)	21. Adds time across an hour (12.51 + 13)	22. Identifies duration between two given times	23. Represents 4.52 on a digital clock	24. Represents 4.52 on a clock face	Total
2	Gouri A	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	0	0	0	0	17
3	Avia B	1	1	1	0	1	1	1	1	1	1	1	1	1	0	0	1	1	1	1	1	0	0	0	0	17
4	Claudia C	1	1	1	0	1	0	1	1	1	1	1	0	1	1	0	1	1	1	1	0	1	0	0	0	16
5	Samuel D	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	0	1	1	21
6	Mitchell E	0	1	1	1	0	0	1	0	1	0	0	0	0	0	0	1	1	0	1	0	0	0	0	0	8
7	Nayomey F	1	1	1	1	1	1	1	0	1	0	1	0	0	0	0	1	0	1	0	0	0	0	0	0	11
8	Amy J	1	1	1	1	0	1	1	1	1	1	1	0	0	0	0	1	1	0	1	0	0	0	0	0	13
9	Kate A	1	1	0	0	0	0	1	1	1	1	0	0	0	0	0	1	1	1	1	0	0	0	0	0	10
10	Nathaniel L	1	1	1	0	1	1	1	1	1	1	1	1	0	0	0	1	1	1	1	1	1	0	1	0	18
11	Aaliyah P	1	1	1	0	1	1	1	1	1	1	1	1	0	0	0	0	0	1	1	1	0	0	0	0	14
12	Maya P	1	1	1	1	1	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	1	0	1	0	20
13	Hamish W	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	1	0	1	1	0	0	0	1	0	16
14		11	12	11	6	8	9	12	10	12	10	10	6	4	4	3	11	8	10	11	4	4	0	4	1	

Easiest items

22. Identifies duration between two given times 20. Links date to a day (not given on calendar) 18. Identifies last day of month on a calendar 4. Describes function of numbers on a clock Reads time of clock (chosen by student) 21. Adds time across an hour (12.51 + 13) 17. Links date to a day given on calendar Represents 4.52 on a digital clock Shades single date on a calendar Identifies activity linked to a time 1. Draws time on an analogue clock 24. Represents 4.52 on a clock face 13. Reads 11.15 on a clock face 10. Names month before April 15. Reads 6.45 on a clock face 12. Reads 9.30 on a clock face 11. Reads 2.00 on a clock face 14. Reads 2.20 on a clock face 7. Writes all days of the week 3. Recalls numbers on clocks 19. Names month after June 8. Writes months of the year Names day before Friday States use of clock ui. Total Samuel D Maya P Nathaniel L Gouri A Avia B Claudia C Hamish W Aaliyah P Amy J Nayomey F Kate A 13 Mitchell E

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Hardest items

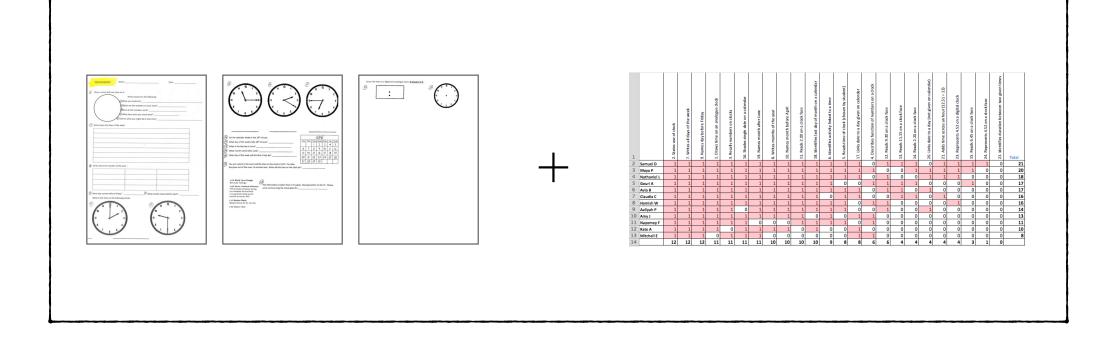
Most competent

	1		2. States use of clock	7. Writes all days of the week	9. Names day before Friday	1. Draws time on an analogue clock	3. Recalls numbers on clocks	16. Shades single date on a calendar	19. Names month after June	8. Writes months of the year	10. Names month before April	11. Reads 2.00 on a clock face	18. Identifies last day of month on a calendar	6. Identifies activity linked to a time	5. Reads time of clock (chosen by student)	17. Links date to a day given on calendar	4. Describes function of numbers on a clock	12. Reads 9.30 on a clock face	13. Reads 11.15 on a clock face	14. Reads 2.20 on a clock face	20. Links date to a day (not given on calendar)	21. Adds time across an hour (12.51 + 13)	23. Represents 4.52 on a digital clock	15. Reads 6.45 on a clock face	24. Represents 4.52 on a dock face	22. Identifies duration between two given times	Total
_	2	Samuel D	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	0	1	1	1	1	0	21
_	3	Maya P	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	1	1	1	1	1	0	0	20
	4	Nathaniel L	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	0	0	1	1	1	0		0	18
	5	Gouri A	1	1	1	1	1	1	1	1	1	1	1	1	0	0	1	1	1	1	0	0		1	0	0	17
	6	Avia B	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0		0	-	0	17
	7	Claudia C	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	0	1	1	0		0	0		0	16
	8	Hamish W	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	0	0			0		0	16
	9	Aaliyah P	1	1	1	1	1	0	1	1	1	1	1	1	1	0	0	1	0	0	1	0		0		0	14
-	10	Amy J	1	1	1	1	1	1	1	1	1	1	0	1	0	1	1	0	0	0	0			0		0	13
÷	11	Nayomey F	1	1	1	1	1	1	0	0	0	1	1	1	1	0	1	0	0	0	0	-		0	-	0	11
	12	Kate A	1	1	1	1	0	1	1	1	1	0	1	0	0	1	0	0	0	0	0			0		0	10 8
	13	Mitchell E	12	12	12	0	11	11	11	0	0 10	0	0	0	0	1	6	0	0	0	0	0	0	0 3		0	8
	14		12	12	12	11	11	11	11	10	10	10	10	9	8	ð	0	0	4	4	4	4	4	3	T	U	

Least competent

What do we look for at first glance?

1		2. States use of clock	7. Writes all days of the week	9. Names day before Friday	1. Draws time on an analogue clock	3. Recalls numbers on clocks	16. Shades single date on a calendar	19. Names month after June	8. Writes months of the year	10. Names month before April	11. Reads 2.00 on a clock face	18. Identifies last day of month on a calendar	6. Identifies activity linked to a time	5. Reads time of clock (chosen by student)	17. Links date to a day given on calendar	4. Describes function of numbers on a clock	12. Reads 9.30 on a clock face	13. Reads 11.15 on a clock face	14. Reads 2.20 on a clock face	20. Links date to a day (not given on calendar)	21. Adds time across an hour (12.51 + 13)	23. Represents 4.52 on a digital clock	15. Reads 6.45 on a clock face	24. Represents 4.52 on a dock face	22. Identifies duration between two given times	Total
2	Samuel D	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	0	1	1	1	1	0	21
3	Maya P	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	1	1	1	1	1	0	0	20
4	Nathaniel L	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	0	0	1	1	1	0	0	0	18
5	Gouri A	1	1	1	1	1	1	1	1	1	1	1	1	0	0	1	1	1	1	0	0	0	1	0	0	17
6	Avia B	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	0	0	0	0	17
7	Claudia C	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	0	1	1	0	1	0	0	0	0	16
8	Hamish W	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	0	0	0	1	0	0	0	16
9	Aaliyah P	1	1	1	1	1	0	1	1	1	1	1	1	1	0	0	1	0	0	1	0	0	0	0	0	14
10	Amy J	1	1	1	1	1	1	1	1	1	1	0	1	0	1	1	0	0	0	0	0	0	0	0	0	13
11	Nayomey F	1	1	1	1	1	1	0	0	0	1	1	1	1	0	1	0	0	0	0	0	0	0	0	0	11
12	Kate A	1	1	1	1	0	1	1	1	1	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	10
13	Mitchell E	1	1	1	0	1	1	1	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	8
14		12	12	12	11	11	11	11	10	10	10	10	9	8	8	6	6	4	4	4	4	4	3	1	0	



We will now consult <u>both</u> the test and the data.

Quick-fire discussion questions

- 1. From a first glance, does the data look "reliable"? Why/why not?
- 2. This was a pre-test. Was it too easy or too hard for this cohort? Why?
- 3. What does the data tell you about the students?
- 4. What doesn't this data tell you about the students?
- 5. Identify 2 students who you think you have valuable information about. What do you know about them that would inform your teaching?
- 6. Identify one test item that you thought was problematic. To what extent does the data support your thinking?
- 7. Compare the data of Claudia and Hamish. What do you notice?

Let's review the discussion questions

1		2. States use of clock	7. Writes all days of the week	9. Names day before Friday	1. Draws time on an analogue dock	3. Recalls numbers on clocks	16. Shades single date on a calendar	19. Names month after June	8. Writes months of the year	10. Names month before April	11. Reads 2.00 on a clock face	18. Identifies last day of month on a calendar	6. Identifies activity linked to a time	5. Reads time of clock (chosen by student)	17. Links date to a day given on calendar	4. Describes function of numbers on a clock	12. Reads 9.30 on a clock face	13. Reads 11.15 on a clock face	14. Reads 2.20 on a clock face	20. Links date to a day (not given on calendar)	21. Adds time across an hour (12.51 + 13)	23. Represents 4.52 on a digital clock	15. Reads 6.45 on a clock face	24. Represents 4.52 on a dock face	22. Identifies duration between two given times	Total
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4	Nathaniel L	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	0	0	1	1	1	0	0	0	18
5	Gouri A	1	1	1	1	1	1	1	1	1	1	1	1	0	0	1	1	1	1	0	0	0	1	0	0	17
6	Avia B	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	0	0	0	0	17
7	Claudia C	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	0	1	1	0	1	0	0	0	0	16
8	Hamish W	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	0	0	0	1	0	0	0	16
9	Aaliyah P	1	1	1	1	1	0	1	1	1	1	1	1	1	0	0	1	0	0	1	0	0	0	0	0	14
10	Amy J	1	1	1	1	1	1	1	1	1	1	0	1	0	1	1	0	0	0	0	0	0	0	0	0	13
11	Nayomey F	1	1	1	1	1	1	0	0	0	1	1	1	1	0	1	0	0	0	0	0	0	0	0	0	11
12	Kate A	1	1	1	1	0	1	1	1	1	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	10
13	Mitchell E	1	1	1	0	1	1	1	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	8
14		12	12	12	11	11	11	11	10	10	10	10	9	8	8	6	6	4	4	4	4	4	3	1	0	

Mostly affirmed

Teach

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3	Maya P	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	1	1	1	1	1	0	0	20
4	Nathaniel L	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	0	0	1	1	1	0	0	0	18
5	Gouri A	1	1	1	1	1	1	1	1	1	1	1	1	0	0	1	1	1	1	0	0	0	1	0	0	17
6	Avia B	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0		1	0	1	0	0	0	0	0	17
7	Claudia C	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	0	1	1	0	1	0	0	0	0	16
8	Hamish W	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	0	0	0	1	0	0	0	16
9	Aaliyah P	1	1	1	1	1	0	1	1	1	1	1	1	-	0	0		0	0	1	0	0	0	0	0	14
10	Amy J	1	1	1	1	1	1	1	1	1	1	0	1	0	1	1	0	0	0	0	0	0	0	0	0	13
11	Nayomey F	1	1	1	1	1	1	0	0	0	1	1	1		0	1	0	0	0	0	0	0	0	0	0	11
12	Kate A	1	1	1	1	0	1	1	1	1	0	1	0		1	0	0	0	0	0	0	0	0	0	0	10
13	Mitchell E	1	1	1	0	1	1	1	0	0	0	0	0		1	1	0	0	0	0	0	0	0	0	0	8
14		12	12	12	11	11	11	11	10	10	10	10	9	8	8	6	6	4	4	4	4	4	3	1	0	

Affirmed

Teach



1		2. States use of clock	7. Writes all days of the week	9. Names day before Friday	1. Draws time on an analogue dock	3. Recalls numbers on clocks	16. Shades single date on a calendar	19. Names month after June	8. Writes months of the year	10. Names month before April	11. Reads 2.00 on a clock face	18. Identifies last day of month on a calendar	6. Identifies activity linked to a time	5. Reads time of clock (chosen by student)	17. Links date to a day given on calendar	4. Describes function of numbers on a clock	12. Reads 9.30 on a clock face	13. Reads 11.15 on a clock face	14. Reads 2.20 on a clock face	20. Links date to a day (not given on calendar)	21. Adds time across an hour (12.51 + 13)	23. Represents 4.52 on a digital clock	15. Reads 6.45 on a clock face	24. Represents 4.52 on a dock face	22. Identifies duration between two given times	Total
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7	Claudia C	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	0	1	1	0	1	0	0	0	0	16
8	Hamish W	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	0	0	0	1	0	0	0	16
9	Aaliyah P	1	1	1	1	1	0	1	1	1	1	1	1	1	0	0	1	0	0	1	0	0	0	0	0	14
10	Amy J	1	1	1	1	1	1	1	1	1	1	0	1	0	1	1	0	0	0	0	0	0	0	0	0	13
11	Nayomey F	1	1	1	1	1	1	0	0	0	1	1	1	1	0	1	0	0	0	0	0	0	0	0	0	11
12	Kate A	1	1	1	1	0	1	1	1	1	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	10
13	Mitchell E	1	1	1	0	1	1	1	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	8
14		12	12	12	11	11	11	11	10	10	10	10	9	8	8	6	6	4	4	4	4	4	3	1	0	

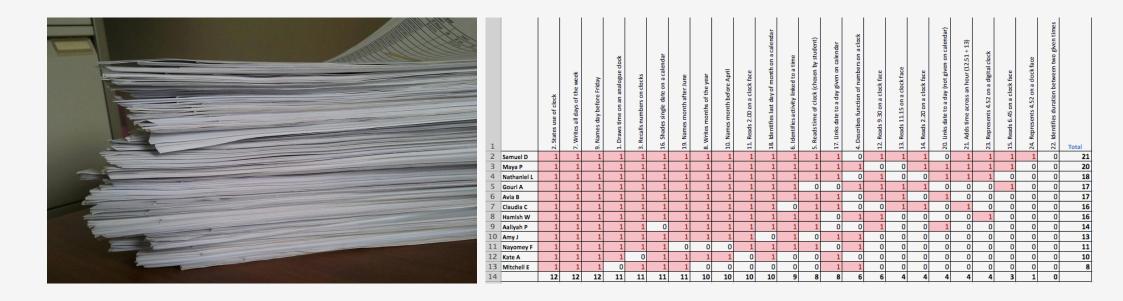
Affirmed

Teach

Teach Can't do

1		2. States use of clock	7. Writes all days of the week	9. Names day before Friday	1. Draws time on an analogue dock	3. Recalls numbers on clocks	16. Shades single date on a calendar	19. Names month after June	8. Writes months of the year	10. Names month before April	11. Reads 2.00 on a clock face	18. Identifies last day of month on a calendar	6. Identifies activity linked to a time	5. Reads time of clock (chosen by student)	17. Links date to a day given on calendar	4. Describes function of numbers on a clock	12. Reads 9.30 on a clock face	13. Reads 11.15 on a clock face	14. Reads 2.20 on a clock face	20. Links date to a day (not given on calendar)	21. Adds time across an hour (12.51 + 13)	23. Represents 4.52 on a digital clock	15. Reads 6.45 on a clock face	24. Represents 4.52 on a dock face	22. Identifies duration between two given times	Total
2	Samuel D	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	0	1	1	1	1	0	21
3	Maya P	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	1	1	1	1	1	0	0	20
4	Nathaniel L	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	0	0	1	1	1	0	0	0	18
5	Gouri A	1	1	1	1	1	1	1	1	1	1	1	1	0	0	1	1	1	1	0	0	0	1	0	0	17
6	Avia B	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0	0	0	0	0	17
7	Claudia C	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	0	1	1	0	1	0	0	0	0	16
8	Hamish W	1	1	1	1	1	-	1	1	1	1	1	1	1	0	1	1	0	0	0	0	1	0	0	0	16
9	Aaliyah P	1	1	1	1	1	0	1	1	1	1	1	1	1	0	0		0	0	1	0	0	0	0	0	14
10	Amy J	1	1	1	1	1	1	1	1	1	1	0	1	0	1	1	0	0	0	0	0	0	0	0	0	13
11	Nayomey F	1	1	1	1	1		0	0	0	1	1	1	1	0	1	0	0	0	0	0	0	0	0	0	11
12	Kate A	1	1	1	1	0	1	1	1	1	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	10
13	Mitchell E	1	1	1	0	1	1	1	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	8
14		12	12	12	11	11	11	11	10	10	10	10	9	8	8	6	6	4	4	4	4	4	3	1	0	

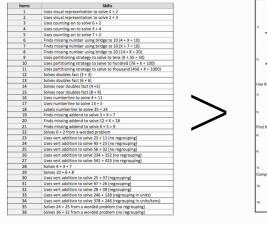
A Guttman chart = new pair of glasses

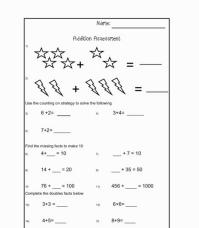


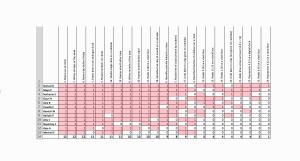
3 take-aways!

- 1. Develop assessments collegiately. Talk across levels.
- 2. Map out the big picture, then improve one test (or task) at a time.
- 3. If possible, consider skills/knowledge <u>first</u>, then develop test material.







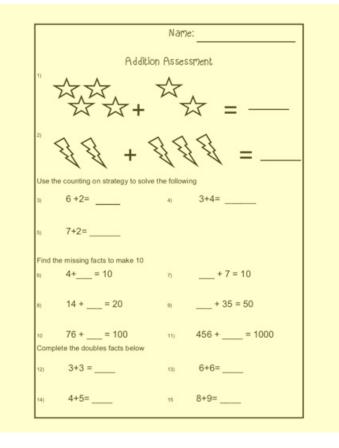




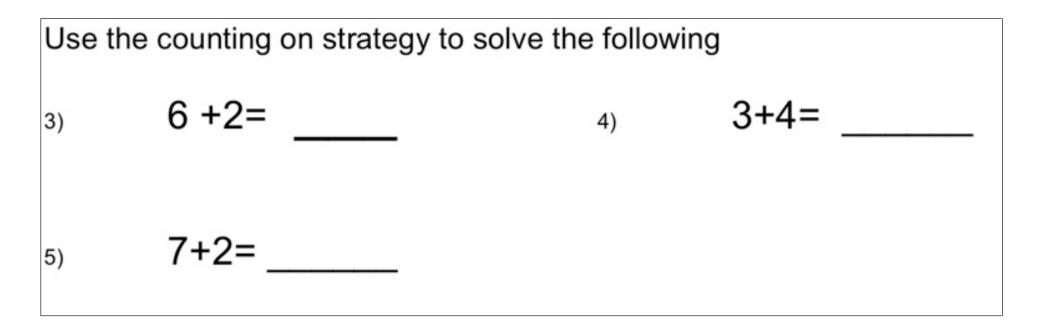
So you've written the test



Let's examine it at the **item-level** and identify possible improvements



Spacing Counting on?



Make 10?

Find	the missing facts to make 10		
6)	4+= 10	7)	+ 7 = 10
8)	14 + = 20	9)	+ 35 = 50
10	76 + = 100	11)	456 + = 1000

lignmen	nt			
23)	23	24)	43	25) 56
	+ 11		+ 25	+ 32
26)	234		27)	541
	+ 152			+ 423
	8 			

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35)
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1/2S has 24 students and 1/2D has 25 students. How many student are there altogether?

1/2 looks like half Consistency of item wording

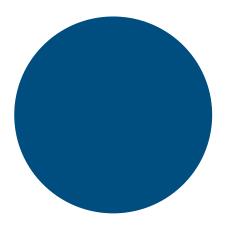
36)

Hakea has 36 house points. They get 52 more. How many house points do they have?

Realistic worded problems

38)

Ben had 127 paint brushes. He found 598 more. How many paint brushes does Ben have?



Reflections for practice What <u>small</u> improvements can you make to your test writing?



Discount code: MAV (25% off)

Stay in touch!

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