

FREE EXCEL TOOL - FILLED EXAMPLE INCLUDED

STOPLIGHT REPORT

Named students. Shared targets. Useful totals.

Ms. Rivera's class - fictional example

	B	C	D	E	F
5		Model equal groups	Write a multiplication equation	Use an array	Find the number of groups
6	Mean score	2.80	2.80	2.60	1.80
7	% scoring 3 or 4	60%	60%	60%	20%
8	Student name or ID	Target 1	Target 2	Target 3	Target 4
9	Avery Cole	4	3	3	2
10	Liam Reed	3	3	2	2
11	Maya Brooks	2	2	3	1
12	Noah Lane	1	2	1	1
13	Zoe Hart	4	4	4	3

10 teacher tabs + a linked summary

Blank workbook + filled example

4-page guide + 16-page walkthrough



Student Assessment Stoplight Report

See how scores move from each class to the summary.

All names and scores in the example are fictional.

Start on Summary Report

Edit teacher names in row 5 and learning targets in A8:A17.

	A	B	C	D	E	F	G
5	Teacher names	Ms. Rivera		Mr. Bennett		Ms. Chen	
6							
7	Learning target	Mean score	% at 3 or 4	Mean score	% at 3 or 4	Mean score	% at 3 or 4
8	Model equal groups	2.80	60%	2.57	57%	2.50	50%
9	Write a multiplication equation	2.80	60%	2.86	57%	2.83	50%
10	Use an array	2.60	60%	2.57	57%	2.67	67%
11	Find the number of groups	1.80	20%	2.00	29%	2.00	33%
12	Find the group size	2.20	40%	2.29	43%	2.17	33%
13	Connect a fact family	2.80	60%	3.00	71%	3.00	67%
14	Find an unknown factor	2.00	20%	1.86	14%	1.83	17%
15	Solve a word problem	2.60	40%	2.71	57%	2.83	67%
16	Explain the reasoning	1.80	20%	2.00	29%	2.00	33%
17	Check with a related fact	2.80	60%	2.86	57%	2.83	50%

One shared setup. The ten math targets appear on every class tab. Ms. Rivera is assigned to Teacher A, Mr. Bennett to Teacher B, and so on through Mr. Jones on Teacher J. Keep the original tab names.

Two files, two uses. Explore the populated Fictional Example workbook. Start your own assessment in the blank workbook. The proposed score meanings are 1 needs support, 2 developing, 3 meets the target and 4 extends learning. Agree on evidence for your task before scoring.

Teacher A - Ms. Rivera

5 fictional students. Enter names in column B and scores in columns C-L.

Targets 1-5: names, entered scores and class totals

	B	C	D	E	F	G
5		Model equal groups	Write a multiplication equation	Use an array	Find the number of groups	Find the group size
6	Mean score	2.80	2.80	2.60	1.80	2.20
7	% scoring 3 or 4	60%	60%	60%	20%	40%
8	Student name or ID	Target 1	Target 2	Target 3	Target 4	Target 5
9	Avery Cole	4	3	3	2	2
10	Liam Reed	3	3	2	2	3
11	Maya Brooks	2	2	3	1	2
12	Noah Lane	1	2	1	1	1
13	Zoe Hart	4	4	4	3	3

Targets 6-10 and each student's mean (same row order)

	H	I	J	K	L	M
5	Connect a fact family	Find an unknown factor	Solve a word problem	Explain the reasoning	Check with a related fact	
6	2.80	2.00	2.60	1.80	2.80	
7	60%	20%	40%	20%	60%	
8	Target 6	Target 7	Target 8	Target 9	Target 10	Mean score
9	3	2	3	2	3	2.70
10	3	2	2	2	3	2.50
11	2	2	2	1	2	1.90
12	2	1	2	1	2	1.40
13	4	3	4	3	4	3.60

Equal groups: mean 2.80; 60% of entered scores are 3 or 4. The matching Summary Report columns show these results. Rows 6-7 calculate by target; column M calculates each student's mean across scored targets.

Teacher B - Mr. Bennett

7 fictional students. Enter names in column B and scores in columns C-L.

Targets 1-5: names, entered scores and class totals

	B	C	D	E	F	G
5		Model equal groups	Write a multiplication equation	Use an array	Find the number of groups	Find the group size
6	Mean score	2.57	2.86	2.57	2.00	2.29
7	% scoring 3 or 4	57%	57%	57%	29%	43%
8	Student name or ID	Target 1	Target 2	Target 3	Target 4	Target 5
9	Eli Moss	3	3	2	2	3
10	Isla Finch	2	2	3	1	2
11	Owen Park	1	2	1	1	1
12	Nora Wells	4	4	4	3	3
13	Theo West	3	2	3	3	2
14	Ruby Fox	2	3	2	2	2
15	Leo Stone	3	4	3	2	3

Targets 6-10 and each student's mean (same row order)

	H	I	J	K	L	M
5	Connect a fact family	Find an unknown factor	Solve a word problem	Explain the reasoning	Check with a related fact	
6	3.00	1.86	2.71	2.00	2.86	
7	71%	14%	57%	29%	57%	
8	Target 6	Target 7	Target 8	Target 9	Target 10	Mean score
9	3	2	2	2	3	2.50
10	2	2	2	1	2	1.90
11	2	1	2	1	2	1.40
12	4	3	4	3	4	3.60
13	3	2	3	2	3	2.60
14	3	1	3	2	2	2.20
15	4	2	3	3	4	3.10

Equal groups: mean 2.57; 57% of entered scores are 3 or 4. The matching Summary Report columns show these results. Rows 6-7 calculate by target; column M calculates each student's mean across scored targets.

Teacher C - Ms. Chen

6 fictional students. Enter names in column B and scores in columns C-L.

Targets 1-5: names, entered scores and class totals

	B	C	D	E	F	G
5		Model equal groups	Write a multiplication equation	Use an array	Find the number of groups	Find the group size
6	Mean score	2.50	2.83	2.67	2.00	2.17
7	% scoring 3 or 4	50%	50%	67%	33%	33%
8	Student name or ID	Target 1	Target 2	Target 3	Target 4	Target 5
9	Aria Shaw	2	2	3	1	2
10	Finn Dale	1	2	1	1	1
11	Ivy Ross	4	4	4	3	3
12	Miles Lake	3	2	3	3	2
13	Luna Gray	2	3	2	2	2
14	Ezra Hill	3	4	3	2	3

Targets 6-10 and each student's mean (same row order)

	H	I	J	K	L	M
5	Connect a fact family	Find an unknown factor	Solve a word problem	Explain the reasoning	Check with a related fact	
6	3.00	1.83	2.83	2.00	2.83	
7	67%	17%	67%	33%	50%	
8	Target 6	Target 7	Target 8	Target 9	Target 10	Mean score
9	2	2	2	1	2	1.90
10	2	1	2	1	2	1.40
11	4	3	4	3	4	3.60
12	3	2	3	2	3	2.60
13	3	1	3	2	2	2.20
14	4	2	3	3	4	3.10

Equal groups: mean 2.50; 50% of entered scores are 3 or 4. The matching Summary Report columns show these results. Rows 6-7 calculate by target; column M calculates each student's mean across scored targets.

Teacher D - Mr. Davis

4 fictional students. Enter names in column B and scores in columns C-L.

Targets 1-5: names, entered scores and class totals

	B	C	D	E	F	G
5		Model equal groups	Write a multiplication equation	Use an array	Find the number of groups	Find the group size
6	Mean score	2.50	2.75	2.50	2.25	2.00
7	% scoring 3 or 4	50%	50%	50%	50%	25%
8	Student name or ID	Target 1	Target 2	Target 3	Target 4	Target 5
9	Ella Snow	1	2	1	1	1
10	Jack Bloom	4	4	4	3	3
11	Mila Wood	3	2	3	3	2
12	Luke Pine	2	3	2	2	2

Targets 6-10 and each student's mean (same row order)

	H	I	J	K	L	M
5	Connect a fact family	Find an unknown factor	Solve a word problem	Explain the reasoning	Check with a related fact	
6	3.00	1.75	3.00	2.00	2.75	
7	75%	25%	75%	25%	50%	
8	Target 6	Target 7	Target 8	Target 9	Target 10	Mean score
9	2	1	2	1	2	1.40
10	4	3	4	3	4	3.60
11	3	2	3	2	3	2.60
12	3	1	3	2	2	2.20

Equal groups: mean 2.50; 50% of entered scores are 3 or 4. The matching Summary Report columns show these results. Rows 6-7 calculate by target; column M calculates each student's mean across scored targets.

Teacher E - Ms. Ellis

8 fictional students. Enter names in column B and scores in columns C-L.

Targets 1-5: names, entered scores and class totals

	B	C	D	E	F	G
5		Model equal groups	Write a multiplication equation	Use an array	Find the number of groups	Find the group size
6	Mean score	2.75	2.88	2.63	2.00	2.25
7	% scoring 3 or 4	63%	63%	63%	25%	38%
8	Student name or ID	Target 1	Target 2	Target 3	Target 4	Target 5
9	Sofia Marsh	4	4	4	3	3
10	Caleb Oaks	3	2	3	3	2
11	Hazel Brook	2	3	2	2	2
12	Levi Glen	3	4	3	2	3
13	Chloe Field	4	3	3	2	2
14	Asher Cove	3	3	2	2	3
15	Grace Shore	2	2	3	1	2
16	Henry Vale	1	2	1	1	1

Targets 6-10 and each student's mean (same row order)

	H	I	J	K	L	M
5	Connect a fact family	Find an unknown factor	Solve a word problem	Explain the reasoning	Check with a related fact	
6	3.00	2.00	2.86	2.00	2.86	
7	75%	14%	71%	29%	57%	
8	Target 6	Target 7	Target 8	Target 9	Target 10	Mean score
9	4	3	4	3	4	3.60
10	3	2	3	2	3	2.60
11	3	1	3	2	2	2.20
12	4	2	3	3	4	3.10
13	3	2	3	2		2.67
14	3	2	2		3	2.56
15	2	2		1	2	1.89
16	2		2	1	2	1.44

Equal groups: mean 2.75; 63% of entered scores are 3 or 4. The matching Summary Report columns show these results. Rows 6-7 calculate by target; column M calculates each student's mean across scored targets.

Teacher F - Mr. Flores

6 fictional students. Enter names in column B and scores in columns C-L.

Targets 1-5: names, entered scores and class totals

	B	C	D	E	F	G
5		Model equal groups	Write a multiplication equation	Use an array	Find the number of groups	Find the group size
6	Mean score	2.83	2.83	2.67	2.00	2.33
7	% scoring 3 or 4	67%	67%	67%	17%	33%
8	Student name or ID	Target 1	Target 2	Target 3	Target 4	Target 5
9	Layla Frost	3	2	3	3	2
10	Wyatt Banks	2	3	2	2	2
11	Violet Sage	3	4	3	2	3
12	Isaac Ford	4	3	3	2	2
13	Stella Grove	3	3	2	2	3
14	Julian Ash	2	2	3	1	2

Targets 6-10 and each student's mean (same row order)

	H	I	J	K	L	M
5	Connect a fact family	Find an unknown factor	Solve a word problem	Explain the reasoning	Check with a related fact	
6	3.00	1.83	2.80	2.00	2.80	
7	83%	0%	80%	20%	60%	
8	Target 6	Target 7	Target 8	Target 9	Target 10	Mean score
9	3	2	3	2	3	2.60
10	3	1	3	2	2	2.20
11	4	2	3	3	4	3.10
12	3	2	3	2		2.67
13	3	2	2		3	2.56
14	2	2		1	2	1.89

Equal groups: mean 2.83; 67% of entered scores are 3 or 4. The matching Summary Report columns show these results. Rows 6-7 calculate by target; column M calculates each student's mean across scored targets.

Teacher G - Ms. Grant

5 fictional students. Enter names in column B and scores in columns C-L.

Targets 1-5: names, entered scores and class totals

	B	C	D	E	F	G
5		Model equal groups	Write a multiplication equation	Use an array	Find the number of groups	Find the group size
6	Mean score	2.80	3.00	2.60	1.80	2.40
7	% scoring 3 or 4	60%	80%	60%	0%	40%
8	Student name or ID	Target 1	Target 2	Target 3	Target 4	Target 5
9	Lucy Birch	2	3	2	2	2
10	Mateo Ridge	3	4	3	2	3
11	Alice Dawn	4	3	3	2	2
12	Gabriel Clay	3	3	2	2	3
13	Sadie Wren	2	2	3	1	2

Targets 6-10 and each student's mean (same row order)

	H	I	J	K	L	M
5	Connect a fact family	Find an unknown factor	Solve a word problem	Explain the reasoning	Check with a related fact	
6	3.00	1.80	2.75	2.00	2.75	
7	80%	0%	75%	25%	50%	
8	Target 6	Target 7	Target 8	Target 9	Target 10	Mean score
9	3	1	3	2	2	2.20
10	4	2	3	3	4	3.10
11	3	2	3	2		2.67
12	3	2	2		3	2.56
13	2	2		1	2	1.89

Equal groups: mean 2.80; 60% of entered scores are 3 or 4. The matching Summary Report columns show these results. Rows 6-7 calculate by target; column M calculates each student's mean across scored targets.

Teacher H - Mr. Hayes

7 fictional students. Enter names in column B and scores in columns C-L.

Targets 1-5: names, entered scores and class totals

	B	C	D	E	F	G
5		Model equal groups	Write a multiplication equation	Use an array	Find the number of groups	Find the group size
6	Mean score	2.86	2.86	2.71	2.00	2.33
7	% scoring 3 or 4	71%	57%	71%	29%	50%
8	Student name or ID	Target 1	Target 2	Target 3	Target 4	Target 5
9	Adrian Lake	3	4	3	2	3
10	Clara Hope	4	3	3	2	2
11	Evan Flint	3	3	2	2	3
12	Naomi Rain	2	2	3	1	2
13	Nolan Spruce	1	2	1	1	1
14	Audrey Bay	4	4	4	3	3
15	Silas Reed	3	2	3	3	

Targets 6-10 and each student's mean (same row order)

	H	I	J	K	L	M
5	Connect a fact family	Find an unknown factor	Solve a word problem	Explain the reasoning	Check with a related fact	
6	2.83	2.17	2.83	2.00	3.00	
7	67%	17%	67%	33%	67%	
8	Target 6	Target 7	Target 8	Target 9	Target 10	Mean score
9	4	2	3	3	4	3.10
10	3	2	3	2		2.67
11	3	2	2		3	2.56
12	2	2		1	2	1.89
13	2		2	1	2	1.44
14		3	4	3	4	3.56
15	3	2	3	2	3	2.67

Equal groups: mean 2.86; 71% of entered scores are 3 or 4. The matching Summary Report columns show these results. Rows 6-7 calculate by target; column M calculates each student's mean across scored targets.

Teacher I - Ms. Ito

4 fictional students. Enter names in column B and scores in columns C-L.

Targets 1-5: names, entered scores and class totals

	B	C	D	E	F	G
5		Model equal groups	Write a multiplication equation	Use an array	Find the number of groups	Find the group size
6	Mean score	2.50	2.50	2.25	1.50	2.00
7	% scoring 3 or 4	50%	50%	50%	0%	25%
8	Student name or ID	Target 1	Target 2	Target 3	Target 4	Target 5
9	Elena Pace	4	3	3	2	2
10	Jasper Moon	3	3	2	2	3
11	Cora Bell	2	2	3	1	2
12	Roman Hart	1	2	1	1	1

Targets 6-10 and each student's mean (same row order)

	H	I	J	K	L	M
5	Connect a fact family	Find an unknown factor	Solve a word problem	Explain the reasoning	Check with a related fact	
6	2.50	2.00	2.33	1.33	2.33	
7	50%	0%	33%	0%	33%	
8	Target 6	Target 7	Target 8	Target 9	Target 10	Mean score
9	3	2	3	2		2.67
10	3	2	2		3	2.56
11	2	2		1	2	1.89
12	2		2	1	2	1.44

Equal groups: mean 2.50; 50% of entered scores are 3 or 4. The matching Summary Report columns show these results. Rows 6-7 calculate by target; column M calculates each student's mean across scored targets.

Teacher J - Mr. Jones

8 fictional students. Enter names in column B and scores in columns C-L.

Targets 1-5: names, entered scores and class totals

	B	C	D	E	F	G
5		Model equal groups	Write a multiplication equation	Use an array	Find the number of groups	Find the group size
6	Mean score	2.75	2.88	2.63	2.00	2.29
7	% scoring 3 or 4	63%	63%	63%	25%	43%
8	Student name or ID	Target 1	Target 2	Target 3	Target 4	Target 5
9	Amelia Stone	3	3	2	2	3
10	Benjamin Fox	2	2	3	1	2
11	Emma Grove	1	2	1	1	1
12	Daniel Lake	4	4	4	3	3
13	Abigail Hill	3	2	3	3	
14	Samuel Moss	2	3	2	2	2
15	Lily Finch	3	4	3	2	3
16	Oliver Dale	4	3	3	2	2

Targets 6-10 and each student's mean (same row order)

	H	I	J	K	L	M
5	Connect a fact family	Find an unknown factor	Solve a word problem	Explain the reasoning	Check with a related fact	
6	2.86	2.00	2.86	2.00	2.88	
7	71%	14%	71%	29%	63%	
8	Target 6	Target 7	Target 8	Target 9	Target 10	Mean score
9	3	2	2		3	2.56
10	2	2		1	2	1.89
11	2		2	1	2	1.44
12		3	4	3	4	3.56
13	3	2	3	2	3	2.67
14	3	1	3	2	2	2.20
15	4	2	3	3	4	3.10
16	3	2	3	2	3	2.70

Equal groups: mean 2.75; 63% of entered scores are 3 or 4. The matching Summary Report columns show these results. Rows 6-7 calculate by target; column M calculates each student's mean across scored targets.

Summary Report: Teachers D-G

These are the middle teacher columns. The target rows stay in the same order.

	H	I	J	K	L	M	N	O
5	Mr. Davis		Ms. Ellis		Mr. Flores		Ms. Grant	
6								
7	Mean score	% at 3 or 4	Mean score	% at 3 or 4	Mean score	% at 3 or 4	Mean score	% at 3 or 4
8	2.50	50%	2.75	63%	2.83	67%	2.80	60%
9	2.75	50%	2.88	63%	2.83	67%	3.00	80%
10	2.50	50%	2.63	63%	2.67	67%	2.60	60%
11	2.25	50%	2.00	25%	2.00	17%	1.80	
12	2.00	25%	2.25	38%	2.33	33%	2.40	40%
13	3.00	75%	3.00	75%	3.00	83%	3.00	80%
14	1.75	25%	2.00	14%	1.83		1.80	
15	3.00	75%	2.86	71%	2.80	80%	2.75	75%
16	2.00	25%	2.00	29%	2.00	20%	2.00	25%
17	2.75	50%	2.86	57%	2.80	60%	2.75	50%

Mr. Davis, Ms. Ellis, Mr. Flores and Ms. Grant
Each name has a mean-score column and a percentage column. Results are linked from Teacher D, E, F and G. Teachers A-C are shown on page 2; H-J and the combined results are shown next.

Read target rows 8-17 in order: equal groups, multiplication equation, array, number of groups, group size, fact family, unknown factor, word problem, reasoning and related-fact check. A percentage uses only the scores entered for that target.

Summary Report: H-J and combined

The rightmost columns combine scores from all ten classes.

	P	Q	R	S	T	U	V	W
5	Mr. Hayes		Ms. Ito		Mr. Jones			
6								
7	Mean score	% at 3 or 4	Mean score	% at 3 or 4	Mean score	% at 3 or 4	Combined mean	Combined % at 3 or 4
8	2.86	71%	2.50	50%	2.75	63%	2.70	60%
9	2.86	57%	2.50	50%	2.88	63%	2.83	60%
10	2.71	71%	2.25	50%	2.63	63%	2.60	62%
11	2.00	29%	1.50		2.00	25%	1.95	23%
12	2.33	50%	2.00	25%	2.29	43%	2.24	38%
13	2.83	67%	2.50	50%	2.86	71%	2.91	71%
14	2.17	17%	2.00		2.00	14%	1.93	13%
15	2.83	67%	2.33	33%	2.86	71%	2.78	65%
16	2.00	33%	1.33		2.00	29%	1.94	26%
17	3.00	67%	2.33	33%	2.88	63%	2.82	56%

Model equal groups: the combined mean is 2.70, and 60% of scores are 3 or 4. All 60 students have a score for this target. Each target uses its own scored count; unscored cells stay out of the calculation.

Row 19, Mean across scored targets, is an equal-weight average of the target results. It is different from a pooled average of every student score. Use the target rows to locate the skills that need closer review.

How the totals are built

Trace one class result, then the combined result.

Teacher A: Model equal groups

Avery Cole	4
Liam Reed	3
Maya Brooks	2
Noah Lane	1
Zoe Hart	4

Mean: $(4 + 3 + 2 + 1 + 4) / 5 = 2.80$

Percentage at 3 or 4: 3 of 5 = 60%

All ten classes, same target:

162 total score points / 60 entered scores = 2.70

36 scores at 3 or 4 / 60 entered scores = 60%

The classes have different numbers of students. Combined results use the entered scores rather than giving a four-student class and an eight-student class equal weight.

See an unscored cell: in Teacher E, Chloe Field has no score for Target 10. There are eight named students, but only seven entered scores for that target. A blank is unscored, not a score of zero. The score-count area to the right of each class sheet supports the calculations.

Use the pattern to plan instruction

A score pattern tells you where to look at student work.

Review the target

In Ms. Rivera's class, Find the number of groups has a mean of 1.80 and 20% at 3 or 4. Revisit how students represented the number of equal groups.

Look at a student's work

Noah Lane has a score of 1 for Model equal groups and for Find the number of groups. Ask him to build or draw the groups and explain what each number counts. These fictional scores do not tell us what his actual mistake would be.

Choose and check a next step

After reviewing the work, model the needed idea, try a new task and collect a short explanation. Choose reteach, practice or extend from the evidence. Colors do not automatically assign groups.

Try the workbook yourself

In a saved copy of the fictional example, change Teacher A cell C9 from 4 to 1. Its color changes; the equal-groups mean becomes 2.20 and the percentage becomes 40%. Summary Report B8:C8 updates to match. Restore the score or reopen a fresh example.

Begin your own class record

Open the blank workbook, save your own working copy, enter shared targets and teacher names on Summary Report, then enter student names or IDs and whole-number scores from 1 to 4. Input cells are editable while formula cells remain protected without a password.