

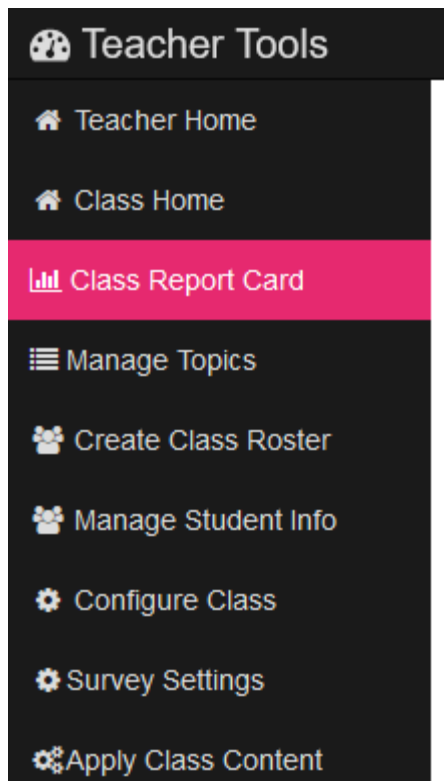
Module 6

Introduction to Analytics Tools

3. Class Performance Per Common Core Standards

Use the MathSpring [Class Performance Per Common Core Standards](#) report to get a better understanding of how an entire class performed on Common Core standards.

1. Log in on [MathSpring.org](#).
2. Select a class from the dashboard.
3. Click the [Class Report Card](#) in the left hand menu.



4. Select the [Class Performance Per Common Core Standards](#) link. The following table will be displayed.

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% Range	Meaning
For more than 5 problems, less than 20% problems for this standard have been solved correctly on first attempt	Clusters that students found challenging
For more than 5 problems, only 20%-40% problems for this standard have been solved correctly on first attempt	Clusters that students found really hard

Showing 1 to 2 of 2 entries

Clusters in Class	# of problems of this kind encountered	% solved in the first attempt	Total hints viewed
3.MD { Grade-3: Area }	1	0	0
3.MD { Grade-3: Problems with Measurements }	3	50	0.33
3.NF { Grade-3: Fractions as Numbers }	6	15	0.5
4.G { Grade-4: Lines and Angles }	1	0	0
4.MD { Grade-4: Angles }	2	50	0
4.MD { Grade-4: Conversion of Measurements }	26	25	1.12
4.MD { Grade-4: Data }	1	0	0
4.NF { Grade-4: Fraction Equivalence and Ordering }	6	44	2
4.NF { Grade-4: Building Fractions }	4	29	0.25
4.NF { Grade-4: Decimals and Fractions }	3	21	0.67
5.G { Grade-5: Geometric Classification }	1	0	0
5.MD { Grade-5: Data }	17	26	1.53

To download the [common core cluster evaluation of students in this class](#), click the 'Download Common Core Cluster Evaluation' button.
 To download the [problem wise performance of students in this class](#), click the 'Download Problem-wise Performance Data' button.
 To filter the results to a particular standard, consider using the provided search box. Enter the domain (3.NBT, 5.EE, etc.) and click Submit.
 To reduce the results and focus on recent student activity, choose a date range that you would like to review.

There are 4 columns of data in the [Class Summary Per Common Core Cluster](#) table:

- Clusters in Class
- # of problems of this kind encountered
- % solved in the first attempt
- Total hints viewed

To see an expanded table of results, click on the expansion arrow in the column [# of problems of this kind encountered](#).

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Class Summary Per Common Core Cluster

Common core cluster evaluation of students in this class
 Problem wise performance of students in this class

% Range	Meaning
For more than 5 problems, less than 20% problems for this standard have been solved correctly on first attempt	Clusters that students found challenging
For more than 5 problems, only 20%-40% problems for this standard have been solved correctly on first attempt	Clusters that students found really hard

Showing 1 to 2 of 2 entries

Clusters in Class	# of problems of this kind encountered	% solved in the first attempt	Total hints viewed
3.MD (Grade-3: Problems with Measurements)	3	22	0
3.NF (Grade-3: Fractions as Numbers)	6	36	1.83
4.G (Grade-4: Lines and Angles)	3	67	0
4.MD (Grade-4: Conversion of Measurements)	15	58	0.33
4.NBT (Grade-4: Multi-Digit Arithmetic)	1	67	1
4.NF (Grade-4: Fraction Equivalence and Ordering)	4	23	1.25
4.NF (Grade-4: Building Fractions)	7	33	6

This expanded table will display the results for each problem attempted by the class. Click on any of the headers in the table to sort it. Hover over the **Problem Name** to see a snapshot of the problem.. Hover off the **CC Standard** to see the Common Core Standard Language.

The table contains important information about how the entire class performed on each problem. Below are some suggestions on how to best use this information.

- a. **# of students saw the problem** - this shows how many students saw this problem.
- b. **% of students solved the problem on the first attempt** - this may indicate a relatively strong or weak area of performance for the class.
- c. **% who repeated the problem** - this shows the number of students who received the problem again because the last time they did NOT solve it.
- d. **% of students skipped the problem** - this shows the number of students who received the problem and immediately clicked the New Problem button. Was this percentage high? This could indicate students are weak in this area or are confused by the question. You may want to focus future remediation around this type of problem or standard.
- e. **% of students gave up**. Was this percentage high? This could indicate students struggled with this content and chose to move on rather than persevere or use assistance.
- f. **Most frequent incorrect response**. This is very handy to identify what could be a common misconception. If you see a common incorrect answer, consider analyzing the answers and see if a misconception could be present in the class as a whole.
- g. **See similar problem** - This feature will bring you to the Massachusetts Comprehensive Assessment System (MCAS) Question search tool. This utility can help find additional similar problems for additional practice.
- h. **Collective Effort on Problem** - By clicking on the matrix icon a new window will display the collective efforts of the class identified by MathSpring. This can be very useful to understand their generalized affect while solving different types of problems.

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5.NF Grade 5: Multiplication and Division of Fractions 14 38 3.29										
Problem Id	Problem Name	CC Standard	# of Students seen the problem	% of Students solved the problem on the first attempt	% of Students repeated the problem	% of Students skipped the problem	% of Students gave up	Most Frequent Incorrect Response	See Similar Problems	Collective effort on Problem
203	5.NBT.7_5n	5.NBT.7	9	20 %	0 %	0 %	0 %	B	?	III
432	5.NF.3_6n	5.NF.3	11	36 %	0 %	0 %	0 %	B	?	III
434	8.SPA.4_5n	8.SP.4	11	27 %	0 %	7 %	0 %	A	?	III
443	5.NF.7.c_5n	5.NF.7.c	3	0 %	0 %	0 %	0 %	B	?	III
452	5.NF.6_5n	5.NF.6	9	67 %	0 %	0 %	0 %	B	?	III
453	5.NF.4.a_5n	5.NF.4.a	6	0 %	0 %	0 %	0 %	A	?	III
457	problem_188	5.NF.6	9	17 %	0 %	0 %	0 %	-	?	III
459	problem_190	5.NF.4.a	11	27 %	0 %	9 %	0 %	C	?	III
1022	problem_267	5.NF.4.a	3	67 %	0 %	0 %	0 %	-	?	III
1053	problem_383	5.NF.6	13	41 %	0 %	9 %	0 %	A	?	III
1054	5.NF.3_7n	5.NF.3	13	37 %	0 %	11 %	0 %	A	?	III
1082	problem_364	5.NF.3	9	77 %	0 %	0 %	0 %	-	?	III
1083	8.SPA.4_6n	8.SP.4	11	36 %	0 %	8 %	0 %	B	?	III
1094	problem_388	5.NF.6	9	36 %	0 %	7 %	0 %	-	?	III

TASK: Log in with the teacher username **practiceteacher** and with the password **practiceteacher**. Go to the Class Summary Per Common Core Cluster report, and open a cluster that was challenging for students. Can you spot if there is a specific problem that was most challenging?