Problem of the Week

by Leanne Luttrell

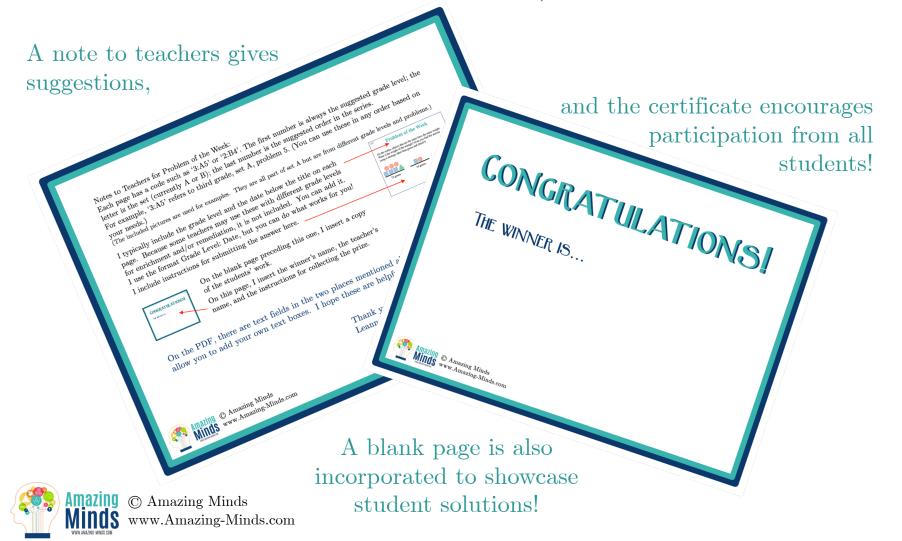
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If Problem of the Week is being used for a school, a copy of the initial problem (not the solution) may be distributed to the appropriate grade level teachers each week and shared with students. The solution may be shown to students in a format that can not be copied, such as an announcement video. All other copyright terms apply.



Each product contains a note to teachers and 6 problem-solving tasks. Each problem has one page with the problem for students, a step-by-step solution, a blank page for student work, and a certificate. (We selected one winner each week, but you can use the certificate in whatever way is most appropriate for you.)



Third Grade Sample

Every student receives the problem.

3:A1

Problem of the Week

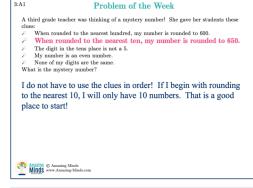
A third grade teacher was thinking of a mystery number! She gave her students these clues:

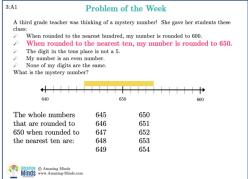
- When rounded to the nearest hundred, my number is
- When rounded to the nearest ten, my number is rounded to 650.
- \mathcal{P} The digit in the tens place is not a 5.
- My number is an even number.
- None of my digits are the same.

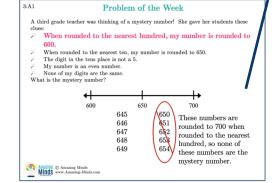
What is the mystery number?

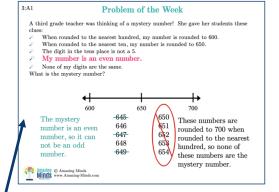


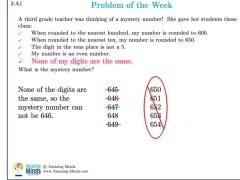
After students have an opportunity to solve it, you can show a step-by-step solution!

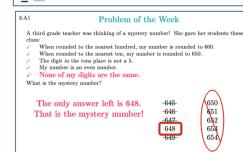






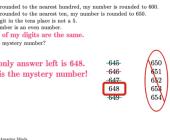








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Fourth Grade Sample

Every student receives the problem.

4:A5

Problem of the Week

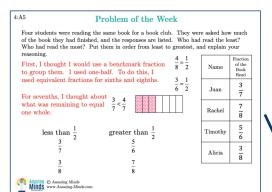
Four students were reading the same book for a book club. They were asked how much of the book they had finished, and the responses are listed.

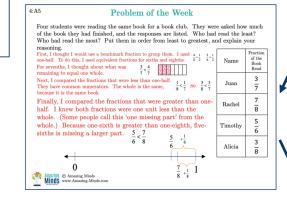
Who had read the least? Who had read the most? Put them in order from least to greatest, and explain your reasoning.

Name	Fraction of the Book Read
Juan	$\frac{3}{7}$
Rachel	$\frac{7}{8}$
Timothy	$\frac{5}{6}$
Alicia	38



After students have an opportunity to solve it, you can show a step-by-step solution!





Problem of the Week

Four students were reading the same book for a book club. They were asked how much of the book they had finished, and the responses are listed. Who had read the least? Who had read the most? Put them in order from least to greatest, and explain your

First, I thought I would use a benchmark fraction to group them. I used one-half. To do this, I used equivalent fractions $\frac{4}{8} = \frac{1}{2} = \frac{3}{6} = \frac{1}{2}$ for sixths and eighths.

For sevenths, I thought about what was remaining to equal one whole.

Next, I compared the fractions that were less than one-half. They have common numerators. The whole is the same, because it is the same book.

> $\frac{1}{8} < \frac{1}{7}$ so $\frac{3}{8} < \frac{3}{7}$ greater than

5 Alicia

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because it is the same book.

whole.) Because one-sixth is greater than oneeighth, five-sixths is missing a larger part.

Four students were reading the same book for a book club. They were asked how much of the book they had finished, and the responses are listed. Who had read the least? Who had read the most? Put them in order from least to greatest, and explain your reasoning.

First, I thought I would use a benchmark fraction to group them. I used 4_1 one-half. To do this, I used equivalent fractions for sixths and eighths. $\frac{4}{8} = \frac{1}{2} = \frac{3}{6} = \frac{1}{2}$ For sevenths, I thought about what was $\frac{3}{7} < \frac{4}{7}$ remaining to equal one whole.

remaining to equal the whole. Next, I compared the fractions that were less than one-half. $\frac{1}{8} < \frac{1}{7}$ so $\frac{3}{8} < \frac{3}{7}$ Finally, I compared the fractions that were greater than one-half. I knew both fractions were one unit less than the whole. (Some people call this 'one missing part' from the

Alicia read the least, and Rachel read the most!

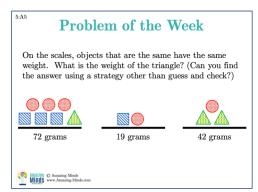
Here is the list from least to greatest: Alicia Juan Timothy Rachel Amazing @ Amazing Minds MINGS www.Amazing-Minds.com



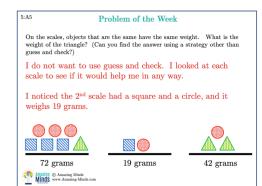
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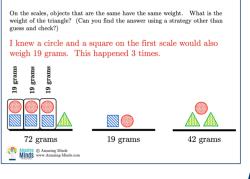
Fifth Grade Sample

Every student receives the problem.

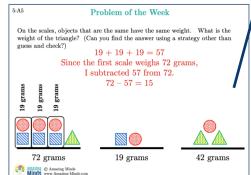


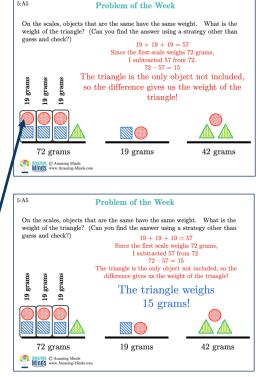
After students have an opportunity to solve it, you can show a step-by-step solution!

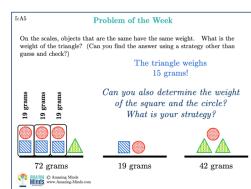




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I appreciate your interest and hope this is helpful! If you have any questions, please send an email!

> Thanks! Leanne