



The Challenge

How many square inches is the Giant Sicilian pizza?





The Challenge

How many square inches
is the Giant Sicilian
pizza's delivery box?





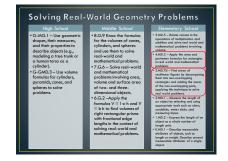
| 1   | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 10  | 11  | 12  | 13  | 1  |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|
| 55  | 56  | 57  | 58  | 59  | 60  | 61  | 62  | 63  | 64  | 65  | 66  | 67  | 6  |
| 109 | 110 | 111 | 112 | 113 | 114 | 115 | 116 | 117 | 118 | 119 | 120 | 121 | 12 |
| 163 | 164 | 165 | 166 | 167 | 168 | 169 | 170 | 171 | 172 | 173 | 174 | 175 | 17 |
| 217 | 218 | 219 | 220 | 221 | 222 | 223 | 224 | 225 | 226 | 227 | 228 | 229 | 23 |
| 271 | 272 | 273 | 274 | 275 | 276 | 277 | 278 | 279 | 280 | 281 | 282 | 283 | 28 |
| 325 | 326 | 327 | 328 | 329 | 330 | 331 | 332 | 333 | 334 | 335 | 336 | 337 | 33 |
| 379 | 380 | 381 | 382 | 383 | 384 | 385 | 386 | 387 | 388 | 389 | 390 | 391 | 39 |
| 433 | 434 | 435 | 436 | 437 | 438 | 439 | 440 | 441 | 442 | 443 | 444 | 445 | 44 |
| 487 | 488 | 489 | 490 | 491 | 492 | 493 | 494 | 495 | 496 | 497 | 498 | 499 | 50 |
| 541 | 542 | 543 | 544 | 545 | 546 | 547 | 548 | 549 | 550 | 551 | 552 | 553 | 55 |

## Standards for Mathematical Practice

- 1. Make sense of problems and persevere in solving them.
- 2. Reason abstractly and quantitatively
- Construct viable arguments and critique the reasoning of others
- . Model with mathematics.
- 5. Use appropriate tools strategically.
- 6. Attend to precision
- 7. Look for and make use of structure
- 8. Look for and express regularity in repeated reasoning.

## Connection to CCSS ELA

- Reading 7 Integrate and evaluate content presented in diverse media and formats, including visually and quantitatively, as well as in words.
- Writing 1 Write arguments to support claims in an analysis of substantive topics or texts using valid reasoning and relevant and sufficient evidence.
- Speaking & Listening 4 Present information, findings, and supporting evidence such that listeners can follow the line of reasoning.









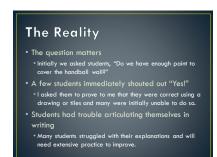
How can we figure out if we have enough paint to cover the handball wall?



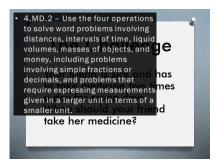












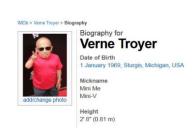




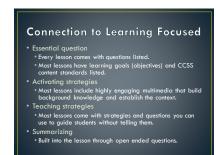
The Challenge

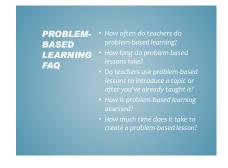
What fraction is Mini-Me of
Dr. Evil?

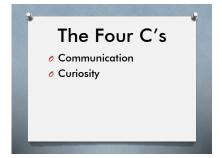




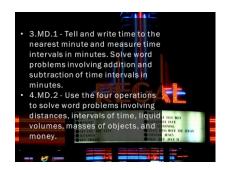














5.NBT.7 Add, subtract, multiply, and divide decimals to hundredths, using concrete models or drawings and strategies based on place value, properties of operations, and/or the relationship between addition and subtraction; relate the strategy to a written method and explain the reasoning used.



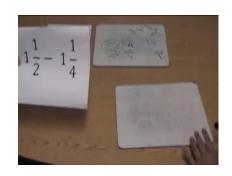








$$1\frac{1}{2} - 1\frac{1}{4}$$





3.NF.2 - Understand a fraction as a number on the number line; represent fractions on a number line diagram.

 4.NF.2 - Compare two fractions with different numerators and different denominators.

 5.NF.2 Solve word problems involving addition and subtraction of fractions referring to the same whole, including cases of unlike denominators.

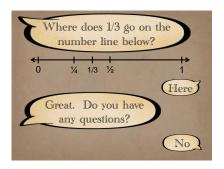
Questioning Scenarios

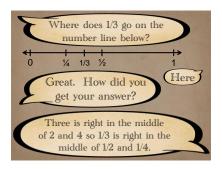
The activity begins with teachers in groups of three taking the roles of teacher, student, or observer.

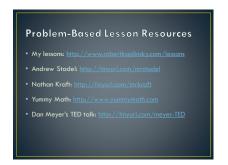
The individuals playing the role of teacher and student each receive a slip of paper describing their scenario.

The individual playing the role of observer waits to record all of the teacher's questions to the student.

Once the activity begins, the teacher will talk to the student in the context of the scenario they read about on the slips of paper.







## **Planning Time**

- Create a list of lessons for your grade level(s).Figure out which lessons you would like to incorporate first.
- details such as:
   When would I do this lesson?
- What resources would I need?
   What other teachers could I collaborate with?



