HSML Summer Pre-Pre-Algebra Course Preparedness Test

High School Math Live wants parents to be well informed. We want your student to be placed in the appropriate course so that they will be successful and challenged while learning the beauty of mathematics. The questions we have below will be a good indicator to whether your student is ready for Pre-Pre-Algebra.

Please have your student complete the test and then scan their work and answers, making sure that the answers are in the same order as the problems on the document. The scan should be emailed as a single PDF document to Mrs. Wolff at raegan.wolff@highschoolmathlive.com .

Mrs. Wolff will contact you with results of the test. If the results do not demonstrate a strong readiness for Pre-Pre-Algebra, it does not mean you won't be *allowed* to take the course, but we want you to know if the class is going to be a significant stretch for your student. Prior to classes starting, if you have registered and decide not to take the course based on the results of this test, you will receive a full refund of the $125 first payment.

Please view our website, www.highschoolmathlive.com, to read other details including what makes a successful HSML summer student and online learner.

For these questions, no calculator should be used.

Part 1. Simplify the following.

1. $7.5 + 2.15$

2. $13.2 - 5.36$

3. $246 - 38$

Part 2. Rounding

1. Round 4145 to the nearest hundred.

2. Round 1.563 to the nearest whole number.

3. Round 81.48 to the nearest tenth.

Part 3. Order these set of numbers in order from least to greatest.

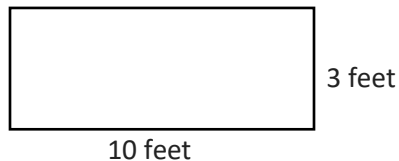421.41   501   632   508   421.647

Part 4. Fractions/Decimals

1. What mixed fraction is equal to 14.25?

2. What is the improper fraction for $3\frac{3}{8}$?

3. What is the decimal that is equal to $4\frac{7}{100}$?

4. What is the decimal that is equal to $\frac{2}{5}$?

5. What is the least common denominator for $\frac{3}{4}$ and $\frac{2}{3}$?

Part 5. Miscellaneous Problems

1. If you can paint 4 walls in a house per day, how long will it take you to paint 16 walls?

2. Laura received 400 emails in a week. Her sister, Kathy, received 231 emails that same week. How many more emails did Laura receive than Kathy?

3. I was paid $32.10, $12.25 and $8.02 for some work on a website development. What was my total pay for this work?

4. I want to redecorate my bedroom. Earlier, I bought 9 feet of a border. I have used $2\frac{1}{2}$ feet already. How much do I have left over to redecorate my room?

5. If I purchased a used video game for $4.48 and gave the cashier $10, how much change did I receive?

6. I will be making $4\frac{1}{2}$ inch cloth strips to go along one edge of a quilt. My quilt edge measures 81 inches. How many strips will I use if they are placed end to end along the edge?

Part 6. Geometry

1. What is the area of this rectangle?

3 feet

10 feet

2. The figure is a square with side length 5 inches. What is the perimeter of this square?