Problem of the Day December

Day 1

What is $7\frac{1}{2}$ divided by $2\frac{1}{2}$? How do you know? _____

_____

Day 2

Explain how to solve 4.8 x 1.2. Solve. _____

_____

_____

Day 3

What is the difference between the metric and customary systems of measurement?

_____

_____

Day 4

For Christmas, Katie is making sugar cookies. The recipe requires $1\frac{5}{8}$ cups of sugar. Martha is making cookies for Hanukkah, and her recipe requires $1\frac{2}{3}$ cups of sugar. Who added more sugar? How do you know? _____

_____

Day 5

The book Joseph is reading is 335 pages. There are 15 chapters. What is a good estimate of how many pages are in each chapter? How did you estimate your answer?

_____

_____

Problem of the Day December

Day 1

What is an equivalent fraction to 0.06? How do you know? Can you think of another equivalent fraction to 0.06?

_____

_____

Day 2

What decimal represents $\frac{1}{4}$?

_____

Day 3

Name three units of measurement in the metric system? What does each measure (distance, mass, volume)? _____

_____

Day 4

Find and continue the pattern:

Amount of math word problems for homework in each grade	**1**	**2**	**4**	_____	_____	_____
Serving(s)	1	2	3	4	5	6

Day 5

What is the difference between a pyramid and a cylinder?

_____

_____

Problem of the Day December

Day 1

Mr. Rodriguez used $3\frac{3}{8}$ reams of paper during the school year. Mr. Miller used $4\frac{2}{3}$ reams of paper during the school year. How much more paper did Mr. Miller use than Mr. Rodriguez? Explain how you solved the problem. _____

_____

Day 2

A number times 6 equals 24.12. What is the number? How did you solve this?

_____

_____

Day 3

Fill in the missing number: 5.23 + 4 + _____ = 29

Day 4

Compare these two numbers using <, >, or =. 17.1 mL _____ 17.01 mL

Day 5

Continue this pattern: 121, 132, 143,

_____, _____, _____, _____, _____

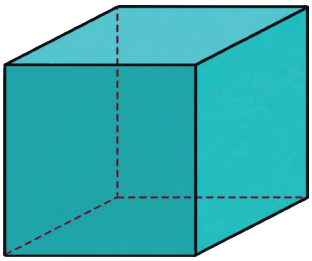
Problem of the Day December

Day 1

What is the volume of this cube?

_____

1 meter



Day 2

What is $\frac{107}{8}$ renamed as a mixed number? How did you solve this?

_____

_____

Day 3

There are 308 days until Martha's birthday. How many weeks until her birthday?

_____

Day 4

Mark is painting 4 rooms. Each room requires $2\frac{1}{6}$ quarts of paint. How much paint will he need? Write your answer in an improper fraction and a mixed number.

_____

_____

Day 5

The volume of a dice is 8 cubic millimeters. What is the length of one side? How did you get your answer? _____

_____

_____

Problem of the Day December **Answer Key**

Week 1

Day 1: **3; 7.5 divided by 2.5 is 3**

Day 2: **Multiply 48 and 12, and then make sure the answer has two numbers behind the decimal. 5.76**

Day 3: **The metric system is based on units of ten, while the customary is not.**

Day 4: **Martha; $1\frac{2}{3} = 1\frac{16}{24}$; $1\frac{5}{8} = 1\frac{15}{24}$**

Day 5: **20 pages; 335 is about 300 and 300 divided by 15 is 20**

Week 2

Day 1:**$\frac{6}{100}$; because the decimal is read "six hundredths"; $\frac{3}{50}$**

Day 2: **0.25**

Day 3: **meters (distance); liters (volume); grams (mass)**

Day 4: **8, 16, 32**

Day 5: **A pyramid has one base. A cylinder has two circular bases.**

Week 3

Day 1: **1 7/24; Subtract 3 9/24 from 4 16/24 (24 is the LCM)**

Day 2: **4.02; 24.12 divided by 6**

Day 3: **19.77**

Day 4: **17.1 _____ > _____ 17.01**

Day 5: **154, 165, 176, 187, 198**

Week 4

Day 1: **cubic meter**

Day 2: **$13\frac{3}{8}$; divide 107 by 8; The quotient is the whole number. The remainder is the numerator.**

Day 3: **44 weeks**

Day 4: **$\frac{26}{3}$ or $\frac{52}{6}$; $8\frac{4}{6}$ or $8\frac{2}{3}$**

Day 5: **2 millimeters; Decide what number multiplied by itself three times equals 8.**