Problem of the Day May

Day 1

What 8,004 divided by 87?

_____

_____

Day 2

What number matches this expanded form?

$5 \times 1{,}000 + 4 \times 100 + 3 \times 10 + 7 \times \frac{1}{10} \times 9 \times \frac{1}{100}$?

_____

_____

Day 3

How do you find the area of a basketball court? Can you think of a formula?

_____

_____

Day 4

What is $\frac{1}{13}$ divided by 8? How do you know?

_____

_____

Day 5

What does (0,7) represent on the coordinate plane?

_____

_____

Problem of the Day May

Day 1

What is $\frac{3}{50}$ + 0.7? How did you find your answer?

_____

_____

Day 2

What decimal is equivalent to $\frac{5}{7}$? (Round to the nearest hundredth.)

_____

_____

Day 3

What is the volume of a rectangular prism that is 107 meters wide, 0.9 meters tall, and 1.8 meters in length? _____

_____

_____

Day 4

Find and continue the pattern:

The amount of water saved from filtering garden water	$\frac{1}{10}$	$\frac{1}{5}$	$\frac{3}{10}$	____	____	____
Original amount of water (in gallons)	1	2	3	4	5	6

Day 5

22 ÷ 11 + 86 ÷ 2 + 7? What is a common mistake that someone could make when solving this problem?

_____

_____

Problem of the Day May

Day 1

Fill in the missing exponent and operation symbols to finish the equation.

9^___ + (1 _____6_____8) = 95

_____

Day 2

A number times 7.5 equals 562.5. What is the number? How did you solve this?

_____

_____

Day 3

Andrew spent $21.50 on 16 pounds of soil for his garden. The nursery sells 8-pound bags of soil for $10.75 and 2-pound bags of soil for $3.45. Which packages of soil did he choose, and how many did he buy?

_____

Day 4

Compare these two numbers using <, >, or =. 1,300 cm _____ 13,000 mm

Day 5

Continue this pattern: $\frac{1}{7}$, $\frac{1}{14}$, $\frac{1}{21}$,
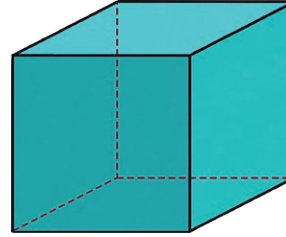
_____, _____, _____,

Problem of the Day May

Day 1

What is the area of this cube?

_____

0.25 meter

Day 2

What is 9.02 renamed as an improper fraction? How did you solve this?

_____

_____

Day 3

Evan groomed his horse for 0.75 of an hour. John groomed his horse for 40 minutes.

Who took longer to groom his horse? How much longer? _____

_____

Day 4

Maureen is making six vases of flowers for her mother's birthday party. She wants each vase to look identical. She has 12 roses, 24 daisies, and 6 bunches of lavender. How many of each flower will she put in each vase?
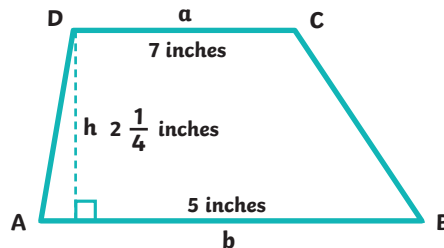
_____

_____

Day 5

Find the area of the trapezoid.

How did you find your answer?

_____

D   a   C
   7 inches

h $2\frac{1}{4}$ inches

A   5 inches   B
        b

Problem of the Day May **Answer Key**

Week 1

Day 1: **92**

Day 2: **5,430.79**

Day 3: **Find the length and width and multiply them together. A=l × w**

Day 4: $\frac{1}{104}$; $\frac{1}{13}$ × $\frac{1}{8}$ **equals** $\frac{1}{104}$

Day 5: **Zero places away from the origin and seven spaces up**

Week 2

Day 1: **0.76; 3/50 =** $\frac{6}{100}$ **= 0.06, so 0.06 + 0.7 = 0.76**

Day 2: **0.71**

Day 3: **173.34 square meters**

Day 4: **Find and continue the pattern:**

The amount of water saved from filtering garden water	$\frac{1}{10}$	$\frac{1}{5}$	$\frac{3}{10}$	$\frac{2}{5}$	$\frac{5}{10}$	$\frac{3}{6}$
Original amount of water (in gallons)	1	2	3	4	5	6

Day 5: **52; Solving it in order from left to right**

Week 3

Day 1: **9^ 2 + (1× 6+8) = 95**

Day 2: **75; Divide 562.5 by 7.5.**

Day 3: **two 8-pound bags**

Day 4: **1,300 cm = 13,000 mm**

Day 5: $\frac{1}{7}$, $\frac{1}{14}$, $\frac{1}{21}$, $\frac{1}{28}$, $\frac{1}{35}$, $\frac{1}{42}$

Week 4

Day 1: **0.015625**

Day 2: $\frac{902}{100}$ **; Multiply the denominator by the whole number, and add the numerator to get the new numerator.**

Day 3: **Evan; 5 minutes**

Day 4: **2 roses, 4 daisies, and 1 bunch of lavender**

Day 5: **13.5 square inches**