Problem of the Day March

Day 1

What is 1,296 divided by 36? _____

_____

Day 2

What is the expanded form of 45,708.26? _____

_____

_____

Day 3

How do you find the volume of a cube if you only know the length of one side?

What is the formula?

_____

Day 4

What is $\frac{7}{8}$ divided by 3? How do you know?

_____

_____

Day 5

What number is halfway between 1,000.6 and 1,000.64? How do you know?

_____

_____

Problem of the Day March

Day 1

What is $\frac{3}{5}$ + 2.7? How did you find your answer?

_____

_____

Day 2

What decimal is equivalent to $\frac{1}{12}$? _____

Day 3

What is the volume of a rectangular prism that is .75-foot-wide, 1.5 feet tall, and 3 feet in length? _____

_____

Day 4

Find and continue the pattern:

Answer with a base of 6	6	36	216	_____	_____	_____
Exponent	1	2	3	4	5	6

Day 5

Solve. 8 x 3 + 21 x 2 ÷ 6? What is a common mistake that someone could make when solving this problem?

_____

_____

Problem of the Day March

Day 1

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

3^ ___+ (12 ___ 9 ___ 2) = 39

Day 2

A number times 9 equals 22.5. What is the number? How did you solve this?

Day 3

Becca needs 7,050 bricks to make a 10-meter-long brick wall. How many bricks will she use for a wall that is 3 meters long?

Day 4

Compare these two numbers using <, >, or =. 130 inches _____ 5 yards.

Day 5

Continue this pattern: 37.5, 7.5, 1.5,

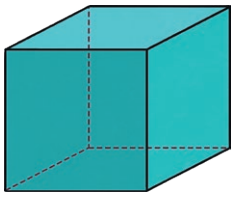
_____, _____, _____, _____, _____

Problem of the Day March

Day 1

What is the volume of this cube?

0.4 foot



Day 2

What is 31.1 renamed as an improper fraction? How did you solve this?

_____

_____

Day 3

Peter hiked for $\frac{4}{7}$ of an hour. James hiked for $\frac{5}{8}$ of an hour. Who hiked longer? How much longer? _____

Day 4

Martha rides her bike at an average speed of 7 mph. She is planning a trip that is 323 miles. She can ride for 7 hours a day. How many days will the trip take her?

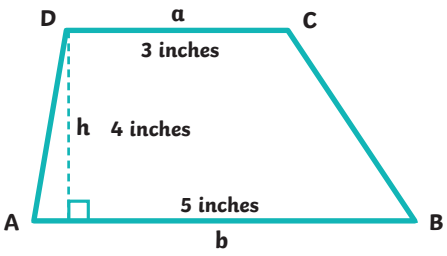
_____

Day 5

Find the area of the trapezoid.

How did you find your answer?

_____



Problem of the Day March **Answer Key**

Week 1

Day 1: **36**

Day 2: **4 x 10,000 + 5 x 1,000 + 7 x 100 + 8 x 1 + 2 x $\frac{1}{10}$ + 6 x $\frac{1}{100}$**

Day 3: **Multiply the side by itself three times; V = s × s × s**

Day 4: $\frac{7}{24}$ **;** $\frac{7}{8}$ **x** $\frac{1}{3}$ **=** $\frac{7}{24}$

Day 5: **1,000.62; 62 is halfway between 60 and 64**

Week 2

Day 1: **3.3; First, change** $\frac{3}{5}$ **to** $\frac{6}{10}$**. Then, add 0.6 + 2.7.**

Day 2: **0.083**

Day 3: **3.375 cubic feet**

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

Answer with a base of 6	56	36	216	**1,296**	**7,776**	**46,656**
Exponent	1	2	3	4	5	6

Day 5: **31; perform the operations in order from left to right**

Week 3

Day 1: **3^2 + (12 + 9 × 2) = 39**

Day 2: **2.5; Divide 22.5 by 9.**

Day 3: **2,115 bricks**

Day 4: **130 inches < 5 yards**

Day 5: **37.5, 7.5, 1.5 , 0.3, 0.06, 0.012**

Week 4

Day 1: **0.064 cubic feet**

Day 2: $\frac{311}{10}$ **; Multiply the denominator by the whole number and add the numerator to get the new numerator.**

Day 3: **James;** $\frac{3}{56}$ **of an hour longer**

Day 4: **7 days**

Day 5: **16 square inches**