Problem of the Day July

Day 1

What is 225 divided by $\frac{1}{5}$? How did you find the answer?

Day 2

What number is this the expanded form:

$9 \times 10{,}000 + 4 \times 1000 + 4 \times 100 + 6 \times \frac{1}{10} + 1 \times \frac{2}{100}$?

Day 3

How can you find the area of a hexagon? Can you think of a formula?

What information would you need?

Day 4

What is 8.75 divided by 25? How do you know?

Day 5

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

Problem of the Day July

Day 1

What is $\frac{6}{200}$ + 1.7? How did you find your answer?

Day 2

What decimal is equivalent to $\frac{1}{8}$?

Day 3

What is the volume of a rectangular prism that is $\frac{1}{2}$ -yard-wide, 3 feet tall, and 2 yards in length?

Day 4

Find and continue the function table:

Input	2	3	4	5	6	7
Output	13	18	23	_____	_____	_____

Day 5

Solve. 81 ÷ 3^2 + 6 × 2 - 1? What is a common mistake that someone could make when solving this problem?

Problem of the Day July

Day 1

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

9^___ + (18_____2____4) = 18

_____

Day 2

A number times 34 equals 51. What is the number? How did you solve this?

_____

_____

Day 3

Jacob spent $12.30 on three pounds of jelly beans for his birthday party. Joseph bought four pounds of jelly beans at a different store at the cost of $4.15 per pound. Who spent more per pound of jelly beans? How much more?

_____

Day 4

Compare these two numbers using <, >, or =. 24 yd _____ 38 feet

Day 5

Continue this pattern: 1, 4, 9, 16 ,

_____, _____, _____,

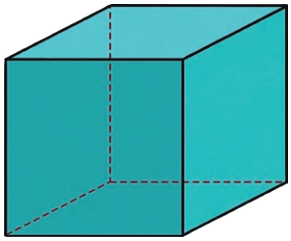
Problem of the Day July

Day 1

What is the volume of this cube?

(Please write your answer in feet.)

$\frac{1}{3}$ yard



_____

Day 2

What is 1.09 renamed as an improper fraction? How did you solve this?

_____

_____

Day 3

Juan spent $9\frac{1}{12}$ hours at the beach this month. Julio spent $\frac{57}{6}$ hours at the beach this month? Who spent a longer amount of time at the beach? How much longer? _____

_____

Day 4

Kyle is about to spin a spinner for the board game he is playing. The spinner has eight equal spaces each with the numbers one through eight? What is the probability he will spin an even number?

_____

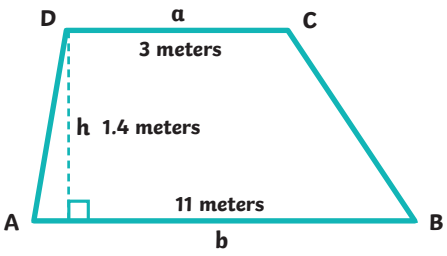
_____

Day 5

Find the area of the trapezoid.

How did you find your answer?

_____



Problem of the Day July **Answer Key**

Week 1

Day 1: **1,125; dividing by one-fifth is the same as multiplying by five**

Day 2: **94,400.62**

Day 3: **Divide it into two triangles and one rectangle; A = ($\frac{1}{2}$ b × h) + (l × w) + ($\frac{1}{2}$ b × h); the height and base of one triangle and the length/height of the rectangle**

Day 4: **0.35; 875 divided by 25 is 35, then move the decimal to the left two places**

Day 5: **origin, or middle of the coordinate plane**

Week 2

Day 1: **1.73; $\frac{6}{200}$ is $\frac{3}{200}$ or 0.03; 0.03 + 1.7 = 1.73**

Day 2: **0.125**

Day 3: **1 cubic yard**

Day 4: **Find and continue the function table:**

Input	2	3	4	5	6	7
Output	13	18	23	**28**	**33**	**38**

Day 5: **20; solve in order from left to right**

Week 3

Day 1: **9^ 1 + (18 × 2 ÷ 4) = 18**

Day 2: **1.5; divide 51 by 34**

Day 3: **Joseph; $0.05 more**

Day 4: **24 yd > 38 feet**

Day 5: **1, 4, 9, 16 , 25 , 36 , 49**

Week 4

Day 1: **1 cubic foot**

Day 2: **$\frac{109}{100}$; change 1.09 to 1 and $\frac{9}{100}$; multiply the denominator by the whole number and add the numerator to get the new numerator**

Day 3: **Julio spent more time at the beach; $\frac{5}{12}$ of an hour longer**

Day 4: **$\frac{1}{2}$ or 50%**

Day 5: **9.8 square meters**