

# Problem of the Day June

**Day 1**

What 5,231.5 divided by 5?

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**Day 2**

What number is this the expanded form:

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

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**Day 3**

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

What information would you need?

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**Day 4**

What is 0.25 divided by 5? How do you know?

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**Day 5**

What does (6,0) represent on the coordinate plane?

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# Problem of the Day June

Day 1

What is  $\frac{2}{20} + 0.8$ ? How did you find your answer?

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Day 2

What decimal is equivalent to  $\frac{2}{9}$ ? (Round to the nearest hundredth.)

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Day 3

What is the volume of a rectangular prism that is 1.2 meters wide, 1.4 meters tall, and 0.8 meters in length? \_\_\_\_\_

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Day 4

Find and continue the pattern.

The amount of degrees in the exterior angle	120	110	100	90	80	70
Amount of degrees in an interior angle	60	70	80	_____	_____	_____

Day 5

Solve.  $225 / 5^2 + 8 \times 2 + 51$ ? What is a common mistake that someone could make when solving this problem?

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# Problem of the Day June

Day 1

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

$$1^{\underline{\quad}} + (10 \underline{\quad} 2 \underline{\quad} 4) = 2$$

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Day 2

A number times 25 equals 212.5. What is the number? How did you solve this?

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Day 3

Selena spent \$5.60 on four pounds of pasta. Emily bought four pounds of pasta at the cost of \$1.35 per one pound of pasta. Who spent more? How much more?

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Day 4

Compare these two numbers using  $<$ ,  $>$ , or  $=$ . 25 mm \_\_\_\_\_ 25 cm

Day 5

Continue this pattern: 12:00, 11:57, 11:51, 11:42 ,

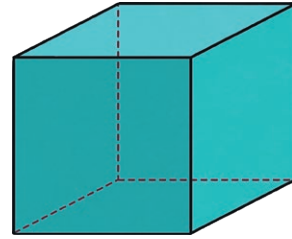
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# Problem of the Day June

Day 1

What is the volume of this cube?  
(Please write your answer in fraction form.)

$\frac{5}{8}$  meter



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Day 2

What is 6.37 renamed as an improper fraction? How did you solve this?

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\_\_\_\_\_

Day 3

Roberta spent  $4\frac{5}{6}$  hours reading this week. Carl spent  $\frac{27}{6}$  hours reading this week? Who read for a longer amount of time? How much longer? \_\_\_\_\_

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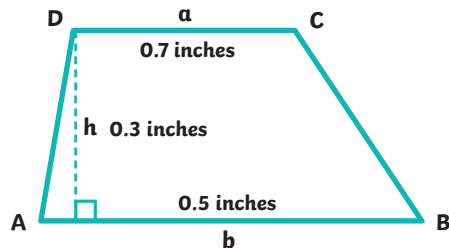
Day 4

Lindsay is about to take her turn at a board game. She is going to roll two dice. What is the probability that she will roll both ones?

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\_\_\_\_\_

Day 5

Find the area of the trapezoid.  
How did you find your answer?



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# Problem of the Day June Answer Key

## Week 1

Day 1: **1,046.3**

Day 2: **70,503.91**

Day 3: **Divide it into a rectangle and triangle then add those two areas. You would need the height of the triangle and the length and width of the rectangle.**

Day 4: **0.05; 25 divided by 5 is 5, then move the decimal two places to the left, since the decimal in 0.25 is two places to the left of 25**

Day 5: **A point right of the origin six spaces**

## Week 2

Day 1: **0.18;  $\frac{2}{20} = \frac{1}{10} = 0.1$ ,  $0.1 + 0.08 = 0.18$**

Day 2: **0.22**

Day 3: **1.344 square meters**

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

<b>The amount of degrees in the exterior angle</b>	120	110	100	90	80	70
Amount of degrees in an interior angle	60	70	80	<b>90</b>	<b>100</b>	<b>110</b>

Day 5: **76; solve from left to right in order**

## Week 3

Day 1:  **$1^{10} + (10 \div 2 - 4) = 2$**

Day 2: **8.5; Divide 212.5 by 25**

Day 3: **Selena; \$0.05 more per pound; \$0.20 more total**

Day 4: **2.5 mm < 25 cm**

Day 5: **12:00, 11:57, 11:51, 11:42, 11:30, 11:15, 10:57**

## Week 4

Day 1:  **$\frac{125}{512}$**

Day 2:  **$\frac{637}{100}$ ; change 6.37 to  $6 \frac{37}{100}$ ; multiply the denominator by the whole number and add the numerator to get the new numerator**

Day 3: **Roberta;  $\frac{1}{3}$  of an hour or 20 minutes**

Day 4:  **$\frac{1}{36}$**

Day 5: **0.18 square inches**