

# Problem of the Day September

**Day 1**

What is  $2\frac{1}{2} \times 2$ ? How do you know? \_\_\_\_\_

\_\_\_\_\_

**Day 2**

Explain how to solve  $\frac{2}{3} + \frac{2}{3}$  in two different ways. \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**Day 3**

What is the difference between a rhombus and a parallelogram?

\_\_\_\_\_

\_\_\_\_\_

**Day 4**

Daniel read for  $\frac{2}{3}$  of an hour on Monday. On Tuesday, he read for  $\frac{3}{5}$  of an hour. On which day did he read more? How do you know?

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\_\_\_\_\_

**Day 5**

An entire chocolate cake has 84 grams of sugar. What is a good estimate of how many grams of sugar are in 5 chocolate cakes? How did you estimate your answer?

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# Problem of the Day September

Day 1

What is an equivalent fraction to  $\frac{1}{5}$  ? How do you know?

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Day 2

What decimal represents  $\frac{4}{10}$  ? What decimal represents  $\frac{1}{2}$  ?

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Day 3

What are the differences between acute, right, and obtuse angles? \_\_\_\_\_

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Day 4

Find and continue the pattern:

Flour in a cake recipe	$\frac{1}{8}$	$\frac{1}{4}$ (or $\frac{4}{10}$ )	$\frac{3}{8}$	_____	_____	_____
Serving(s)	1	2	3	4	5	6

Day 5

How many degrees are in a circle? How many in a semi-circle?

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# Problem of the Day September

Day 1

When Irene measured sunflower seeds for her garden, she had  $2\frac{1}{4}$  cups. When Sharon measured her sunflower seeds, she had  $\frac{3}{4}$  cup. How many more seeds did Irene have?

Explain how you solved the problem. \_\_\_\_\_

\_\_\_\_\_

Day 2

Some number plus 5.1 equals 6.7. What is the number? How did you solve this?

\_\_\_\_\_

\_\_\_\_\_

Day 3

Fill in the missing number:  $4\frac{2}{3} + \underline{\hspace{2cm}} = 13$

Day 4

Compare these two numbers using  $<$ ,  $>$ , or  $=$ .  $17.03$  \_\_\_\_\_  $170.3$

Day 5

Continue this pattern: 4.16, 8.32, 12.48,

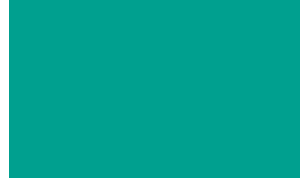
\_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_

# Problem of the Day September

Day 1

What is the area of this house?

10 feet



12 feet

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Day 2

What is  $\frac{45}{7}$  renamed as a mixed number? How did you solve this?

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Day 3

There are 399 books to separate into 57 boxes. How many books will go into each box?

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Day 4

Anita needs  $\frac{3}{5}$  of a yard of fabric to make a small blanket. She plans on making 4 blankets. How much fabric will she need? Please write your answer in an improper fraction and a mixed number. \_\_\_\_\_

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Day 5

The perimeter of Evan's playroom is 120 feet. The width is 30 feet. What shape is Evan's playroom? \_\_\_\_\_

# Problem of the Day September Answer Key

## Week 1

Day 1: **5**, when you add  $2\frac{1}{2} + 2\frac{1}{2} = 5$

Day 2:  $\frac{4}{3}$  or  $1\frac{1}{3}$ ; Draw a picture, or add the numerators to get  $\frac{4}{3}$ .

Day 3: A rhombus has four sides with the same length and two sets of parallel sides. A parallelogram has two sets of parallel sides, but not all sides have to be the same length.

Day 4: He read more on Monday, because  $\frac{2}{3} = \frac{10}{15}$  and  $\frac{3}{5} = \frac{9}{15}$ .

Day 5: A good estimate is 400 grams, because  $80 \times 5 = 400$ .

## Week 2

Day 1:  $\frac{2}{10}$ ;  $1 \times 2 = 2$  and  $5 \times 2 = 10$

Day 2: **0.4, 0.5**

Day 3: An acute angle measures less than 90 degrees, a right-angle measures 90 degrees, and an obtuse angle measures more than 90 degrees.

Day 4: Find and continue the pattern:

Flour in a cake recipe	$\frac{1}{8}$	$\frac{1}{4}$ (or $\frac{4}{10}$ )	$\frac{3}{8}$	$\frac{1}{2}$ (or $\frac{4}{8}$ )	$\frac{5}{8}$	$\frac{3}{4}$ (or $\frac{6}{8}$ )
Serving(s)	1	2	3	4	5	6

Day 5: **360; 180**

## Week 3

Day 1:  **$1\frac{1}{2}$  cups**;  $2\frac{1}{4} - \frac{3}{4} = 1\frac{1}{2}$  cups

Day 2: **1.6**;  $6.7 - 5.1 = 1.6$

Day 3:  **$8\frac{1}{3}$**

Day 4: **17.03** \_\_\_\_\_ < \_\_\_\_\_ **170.3**

Day 5: **16.64, 20.80, 24.96, 29.12, 33.28**

## Week 4

Day 1: **120 square feet**

Day 2:  $6\frac{3}{7}$ ; Divide 45 by 7. The quotient is the whole number, and the remainder is the numerator of the fraction.

Day 3: **7 books**

Day 4:  $2\frac{2}{5}$ ,  $\frac{12}{5}$

Day 5: **square**