

# Entering 7P Summer Math

1. You must do all your work on the supplied *work sheet*.
2. Write your answers separately on the *answer sheet*.
3. Number your problems.
4. All work is to be completed in pencil.
5. The entire set of problems is due the first day of school and will be your first quiz grade.

## Week 1

Simplify.

1.  $1\frac{3}{5} + 4\frac{7}{10}$

2.  $1\frac{1}{12} + 2\frac{2}{3} + 2\frac{1}{4}$

3.  $4\frac{4}{5} + 8\frac{2}{3}$

4.  $11\frac{3}{4} + 6\frac{3}{7}$

5.  $5\frac{1}{9} + 4\frac{1}{2}$

6.  $6\frac{3}{4} - 2\frac{1}{2}$

7.  $3\frac{5}{6} - \frac{3}{4}$

8.  $6\frac{1}{4} - 4\frac{1}{3}$

9.  $1\frac{3}{10} - \frac{2}{5}$

10.  $7\frac{5}{6} - 4\frac{2}{5}$

## Week 2

Simplify.

1.  $\frac{3}{7} \times \frac{2}{3}$

2.  $\frac{3}{4}$  of 84

3.  $\frac{1}{9} \cdot \frac{2}{7} \cdot \frac{3}{8}$

4.  $5\frac{2}{7} \times 2\frac{1}{6}$

5.  $3\frac{1}{2} \times 7$

6.  $\frac{1}{8} \div \frac{2}{3}$

7.  $4\frac{3}{5} \div 2\frac{1}{6}$

8.  $\frac{3}{7} \div \frac{1}{3}$

9.  $4 \div \frac{2}{3}$

10.  $21 \div 1\frac{1}{6}$

### Week 3

Use order of operations to solve.

1.  $(6 + 25 - 7) \div 6$

2.  $(5 + 16) \div 7 - 2$

3.  $7 + 10 \times 5 + 10$

4.  $8^3 - 8 \times 8 + 8 \div 8$

5.  $(3 + 2)^2 + 10 \cdot 3 \div 5 - 12$

6.  $1.23 + \sqrt{16} + .05$

7.  $10 + 2^3 \times 3 - (7 + 2) \div 9$

8.  $4 + 4 \times 4 - 4 \div 4$

9.  $9 + (45 \div 5 \times 4 + 6)$

10.  $3 + 35 \div 5 + (5 + 4^3)$

## Week 4

1. What is the quotient when the sum of 15 and 12 is divided by the difference of 15 and 12?
2. Use divisibility tests to decide which of the numbers 2, 3, 5, 9, and 10 are factors of the following 2 numbers.   **120**    **102**
3. Arrange these numbers in order from least to greatest.  
1,  $\frac{1}{2}$ , 0, -2,  $\frac{1}{4}$
4. If the diameter of a bicycle wheel is 24 inches, what is the ratio of the radius of the wheel to the diameter of the wheel?
5. A regular hexagon has six sides of equal length. If a regular hexagon is made from a 35-inch-long string, what is the length of each side?
6. If the sales tax rate is 6%, then how much sales tax is there on a \$3.79 purchase? Round your answer to the nearest cent.
7. If 36 is the dividend and 4 is the divisor, what is the quotient?
8. If a rectangle has a length of 20mm and a width of 15 mm, what is the perimeter?
9. What is the sum of the first five odd numbers greater than zero?
10. Use digits to write four billion, five hundred twenty million.

## Week 5

Solve.

1.  $88.5 + 33.02$

2.  $43 + 39.06$

3.  $21.9 + 14.17$

4.  $88 + 63.190$

5.  $81.6 + 71.253$

6.  $4.23 \times 9$

7.  $4.4 \times 2.727$

8.  $9.41 \times 4.8$

9.  $9.513 \times 5.7$

10.  $2 \times 8.38$

## Week 6

Solve.

1.  $92 - 53.3$

2.  $78.38 - 34.772$

3.  $96.927 - 67$

4.  $52 - 20.209$

5.  $100 - 89.7$

6.  $54.4 \div 0.34$

7.  $72 \div 0.9$

8.  $54.4 \div 0.34$

9.  $8.1 \times 2.6$

10.  $8.26 \times 8.1$

## Week 7

Order the numbers from least to greatest.

1.  $9, 6, \frac{1}{2}, -5, -\frac{1}{2}, 5$

2.  $-64, -72, -60, -80$

3.  $-3, -4, 0, 10$

4.  $0.19, 0.845, 0.8, 0.096$

5.  $1.5, 0.015, 0.15, 1.51, 0.051$

6.  $\frac{9}{6}, \frac{5}{12}, \frac{1}{2}$

7.  $\frac{5}{4}, \frac{5}{2}, \frac{5}{10}$

Solve.

8.  $\frac{288.4}{14}$

9.  $5247.2 \div 56$

10. Find the quotient when the divisor is 20 and the dividend is 200.

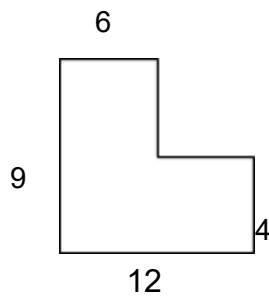


## Week 8

1-3. Complete the table. Reduce fractions to lowest terms.

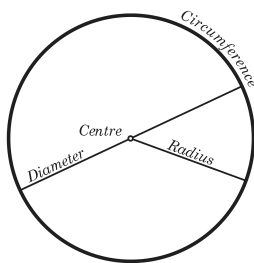
F	D	P
$\frac{4}{25}$		
	0.01	
		85%

4.



What is the perimeter of this hexagon? Dimensions are in centimeters. Figure is not to scale.

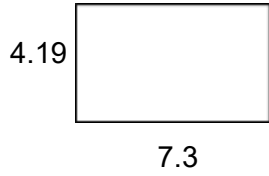
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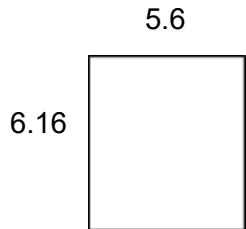
What is the circumference of a circle that has a radius of 2 inches? ( $\pi = 3.14$ )

6 and 7. Find the perimeter and area of the quadrilaterals. Each figure is in cm. Figures are not to scale.

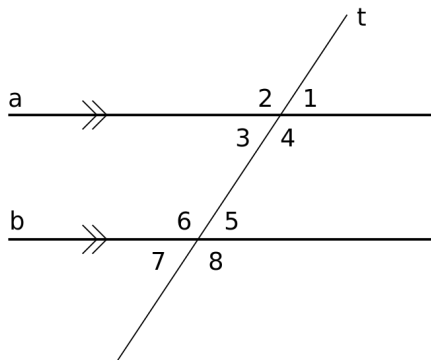
6.



7.



8.



Which angles are acute? Which angles are obtuse?

9. In the illustration above, what is the measure of  $\angle 6$ , if  $\angle 5$  is  $75^\circ$ ?

10. In a class of 33 students, the ratio of boys to girls is 4 to 7. How many girls are in that class?

## Week 9

Simplify.

1.  $\frac{5 \cdot 5 \cdot 7 \cdot 5}{2 \cdot 2 \cdot 2 \cdot 5 \cdot 5 \cdot 5}$

2.  $\left(\frac{3}{4}\right)^2$

3.  $\frac{100+75}{100-75}$

4.  $2\frac{2}{3} \times \sqrt{9}$

5.  $\frac{1}{4}$  of  $1\frac{3}{5}$

6.  $7 \div 1\frac{3}{4}$

7.  $7\frac{1}{8} - 2\frac{1}{2}$

8.  $(3.5)^2$

9.  $(1 + 0.6) \div (1 - 0.6)$

10.  $(0.12)(0.24)$

## Week 10

Solve for each variable.

1.  $24 + c + 96 = 150$

2.  $5 - m = 3\frac{1}{8}$

3.  $m + 1\frac{2}{3} = 3\frac{1}{6}$

4.  $3n = 1\frac{1}{2}$

5.  $5x = 0.36$

6.  $63 = 0.9y$

7.  $5n = 10^2$

8.  $1\frac{1}{2}w = 6$

9.  $\frac{n}{25} = 300$

10.  $\frac{105}{n} = 7$