

Incoming 7th Grade Summer Math Packet

This packet will help you retain the skills you learned in 6th grade so we can continue to build on these when you return in August!

This packet is due the first week of class and will be graded on work accuracy and completion. It will be one of your first grades of 8th grade. You will also be tested on these skills when you return to school in August. Be sure to answer every question and SHOW ALL WORK!! NO WORK = NO CREDIT

Please follow instructions and do not use a calculator where specified!

Thank you!
Jamie Koons

Summer Math Packet for Incoming 7th Grade

Week 1



Day 1- Basic Skills <i>Simply the following fractions</i> 1. $\frac{12}{20} =$ 2. $\frac{6}{27} =$ 3. $\frac{12}{18} =$	Day 2 -Operations with Decimals 1. $5 + 7.84 + 28.062$ 2. $503 + 236.408 + 2.898$
Day 3 -Operations with Fractions <i>Add the following fractions. Remember to use common denominators.</i> 1. $\frac{1}{4} + \frac{3}{8} =$ 2. $\frac{7}{9} + \frac{5}{6} =$	Day 4 - Expressions <i>Evaluate</i> 1. $150 + n$ if $n = 15$ 2. $30n$ if $n = 2.5$ 3. $5n + 3$ if $n = 4$
Day 5 - Solving Equations 1. $x + 9 = 18$ 2. $n + 3.5 = 10.5$	Day 6 - Potpourri Exponents <i>Write each expression in exponential form</i> 1. $8 \cdot 8 \cdot 8 =$ 2. $6 \cdot 6 \cdot 6 \cdot 6 \cdot 6 =$ 3. $4 \cdot 4 \cdot 4 \cdot 4 =$

Week 2



Day 1 -Basic Skills <i>Find the equivalent fraction for each</i> 1. $\frac{3}{8} = \frac{\quad}{48}$ 2. $\frac{2}{5} = \frac{\quad}{20}$ 3. $\frac{1}{6} = \frac{\quad}{30}$	Day 2 -Operations with Decimals 1. $215 - 204.8$ 2. $100 - 21.05 - 0.074$
Day 3 -Operations with Fractions <i>Subtract the following fractions. Remember to use common denominators.</i> 1. $\frac{7}{8} - \frac{3}{6} =$ 2. $\frac{3}{4} - \frac{1}{5} =$	Day 4 - Expressions <i>Evaluate</i> 1. $12n$ if $n = 9$ 2. $3n + 2$ if $n = 5$ 3. $4n \div k$ if $n = 6$ and $k = 8$
Day 5 - Solving Equations 1. $x - 4 = 12$ 2. $n - 5.4 = 8.5$	Day 6 - Potpourri Exponents <i>Write each expression as repeated multiplication and find each value</i> 1. $2^5 =$ 2. $3^4 =$ 3. $5^3 =$

Week 3



<p>Day 1 - Basic Skills <i>Order the following from least to greatest</i></p> <p>1. 2.17, 2.3, $2\frac{1}{8}$</p> <p>2. 0.2, 0.02, $\frac{1}{4}$</p>	<p>Day 2 -Operations with Decimals</p> <p>1. $7.32 \cdot 4.6$</p> <p>2. $1.36 \cdot 0.08$</p>
<p>Day 3 -Operations with Fractions</p> <p>1. $\frac{3}{8} \cdot \frac{5}{6} =$</p> <p>2. $3\frac{1}{2} \cdot \frac{7}{10} =$</p>	<p>Day 4 - Expressions <i>Translate each phrase to an expression</i></p> <p>1. a number minus 7</p> <p>2. the difference of two and a number</p> <p>3. the sum of a number and twenty-two</p>
<p>Day 5 - Solving Equations</p> <p>1. $2x = 12$</p> <p>2. $5n = 3.5$</p>	<p>Day 6 - Potpourri Order of Operations <i>Simplify each expression</i></p> <p>1. $4^2 + 48 \div (10 - 4)$</p> <p>2. $50 \div 5^2 + 7 \cdot 3$</p>

Week 4



Day 1 - Basic Skills <i>What is the reciprocal of each of the following</i> 1. $\frac{5}{6}$ 2. 8 3. $2\frac{1}{3}$	Day 2 -Operations with Decimals 1. $6.48 \div 0.36$ 2. $27.9 \div 6.2$
Day 3 -Operations with Fractions 1. $\frac{2}{5} \div \frac{14}{15} =$ 2. $\frac{7}{8} \div \frac{1}{2} =$	Day 4 - Expressions <i>Translate each phrase to an expression</i> 1. three more than n 2. the product of fourteen and g 3. the quotient of n and 5
Day 5 - Solving Equations 1. $\frac{x}{4} = 5$ 2. $\frac{n}{3} = 3.3$	Day 6 - Potpourri Order of Operations <i>Simplify each expression</i> 1. $7 + 24 \div 6 \cdot 2$ 2. $5 \cdot (28 \div 7) - 4^2$

Week 5



Day 1 - Basic Skills

Write the following fractions as decimals

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

2. $\frac{2}{5}$

3. $\frac{7}{20}$

Day 2 - Operations with Decimals

1. $11.49 + 0.083 =$

2. $84.34 - 67.235 =$

Day 3 - Operations with Fractions

1. $4\frac{2}{3} - 2\frac{1}{9} =$

2. $1\frac{7}{10} + 3\frac{3}{4} =$

Day 4 - Expressions

Expand each expression by using the distributive property

1. $2(x + 3)$

2. $4(2 + n)$

Day 5 - Solving Equations

1. $2x + 4 = 10$

2. $3x + 5 = 11$

Day 6 - Potpourri

Find the GCF for each set

1. 24 and 108

2. 45, 18, and 39

Week 6



<div>Day 1 - Basic Skills</div> <div>Write each improper fraction as a mixed number and each mixed number as an improper fraction.</div> <div><div>1. $\frac{39}{4}$</div><div>2. $\frac{26}{7}$</div><div>3. $7\frac{5}{6}$</div><div>4. $6\frac{3}{8}$</div></div>	<div>Day 2 -Operations with Decimals</div> <div>1. $5.23 \cdot 3.2 =$</div> <div>2. $5.13 \div 27 =$</div>
<div>Day 3 -Operations with Fractions</div> <div>1. $2\frac{1}{4} \cdot 2\frac{2}{3} =$</div> <div>2. $3\frac{1}{8} \cdot 1\frac{1}{4} =$</div>	<div>Day 4 - Expressions</div> <div>Expand the expressions using the distributive property</div> <div>1. $4(2 + 3x)$</div> <div>2. $5(4 + 6x)$</div>
<div>Day 5 - Solving Equations</div> <div>1. $x + 2x + 3 = 15$</div> <div>2. $x + 6\frac{2}{3} = 11$</div>	<div>Day 6 - Potpourri</div> <div>Write the prime factorization of each number</div> <div><div>36</div><div>54</div></div>