Math Summer Packet Reference Sheet

If you have questions on the following topics, please visit these websites for online video tutorials.

- Improper fractions to mixed numbers: https://www.khanacademy.org/math/arithmetic/fractions/mixed-numbers/v/changing-an-improper-fraction-to-a-mixed-number
- Mixed numbers to Improper fractions: https://www.khanacademy.org/math/in-sixth-grade-math/fractions-1/improper-mixed-fractions/v/mixed-numbers-and-improper-fractions
- Order of Operations (PEMDAS- Parentheses, Exponents, Multiply, Divide, Add, Subtract): https://www.khanacademy.org/math/algebra-basics/core-algebra-foundations/algebra-foundations-order-of-operations/v/introduction-to-order-of-operations
- Multiplying Fractions: https://www.khanacademy.org/math/pre-algebra/fractions-pre-alg/multiplying-fractions-pre-alg/v/multiplying-fractions
- Dividing Fractions: https://www.khanacademy.org/math/arithmetic/fractions/div-fractions-fractions/v/dividing-fractions-example
- Add Decimals: https://www.khanacademy.org/math/arithmetic/decimals/adding-decimals/v/adding-decimals-example-1
- Subtract Decimals: https://www.khanacademy.org/math/pre-algebra/decimals-pre-alg/adding-decimals-pre-alg/v/subtracting-decimals
- Combine Like Terms: https://www.khanacademy.org/math/algebra-basics/core-algebra-expressions/core-algebra-manipulating-expressions/v/combining-like-terms
- One-Step Equations: https://www.khanacademy.org/math/algebra-basics/core-algebra-linear-equations-inequalities/core-algebra-solving-basic-equations/v/one-step-equations

Name : _____ Score : _____

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Converting Improper Fractions to Mixed Numbers

1) $\frac{13}{4}$ = ____ 2) $\frac{62}{9}$ = ____ 3) $\frac{13}{4}$ = ____

4) $\frac{39}{10}$ = ____ 5) $\frac{27}{4}$ = ____ 6) $\frac{7}{3}$ = ____

7) $\frac{9}{2}$ = ____ 8) $\frac{55}{9}$ = ____ 9) $\frac{32}{6}$ = ____

10) $\frac{21}{10}$ = ____ 11) $\frac{16}{7}$ = ____ 12) $\frac{15}{2}$ = ____

13) $\frac{44}{7}$ = ____ 14) $\frac{56}{10}$ = ____ 15) $\frac{28}{8}$ = ____

Converting Mixed Numbers to Improper Fractions

1) $5\frac{2}{3}$ = ____ 2) $5\frac{1}{8}$ = ____ 3) $4\frac{3}{5}$ = ____

4) $9\frac{1}{5}$ = ____ 5) $5\frac{3}{8}$ = ____ 6) $6\frac{1}{3}$ = ____

7) $7\frac{5}{8}$ = ____ 8) $9\frac{1}{5}$ = ____ 9) $7\frac{1}{9}$ = ____

10) $7\frac{2}{3}$ = ____ 11) $6\frac{5}{6}$ = ____ 12) $9\frac{1}{2}$ = ____

13) $8\frac{1}{7}$ = ____ 14) $6\frac{4}{5}$ = ____ 15) $7\frac{3}{4}$ = ____

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Order of Operations

Solve.

1) $(64 - 16) \div 2^2$

Ans =

2) $7^2 \times (12 + 15)$

Ans =

3) $(5 + 3) \times 2^5$

Ans =

4) $9^3 \div (58 - 43)$

Ans =

5) $(85 \div 5) + 5^2$

Ans =

6) $(8 \times 2^4) + 34$

Ans =

7) $3^3 + (76 \div 2)$

Ans =

8) $(11 + 9) \times 3^2$

Ans =

9) $2^2 \times (35 + 48)$

Ans =

10) $(96 - 32) \div 4^2$

Ans =

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Multiplying and Dividing Fractions

$\frac{2}{6} \times \frac{3}{5} =$ ☐ $\frac{3}{8} \div \frac{2}{4} =$ ☐ $\frac{4}{9} \times \frac{6}{2} =$ ☐

$\frac{2}{3} \div \frac{3}{4} =$ ☐ $5 \times \frac{10}{3} =$ ☐ $\frac{9}{4} \div \frac{1}{6} =$ ☐

$\frac{8}{9} \times \frac{5}{8} =$ ☐ $\frac{4}{18} \div \frac{2}{9} =$ ☐ $\frac{3}{4} \times \frac{2}{5} =$ ☐

$12 \div \frac{4}{6} =$ ☐ $\frac{15}{3} \times \frac{6}{9} =$ ☐ $\frac{6}{8} \div \frac{15}{5} =$ ☐

$\frac{7}{13} \times \frac{1}{7} =$ ☐ $\frac{6}{11} \div \frac{5}{11} =$ ☐ $\frac{2}{7} \times 21 =$ ☐

Student Name: _____ Score:

Decimals Addition Word Problems

Questions	Workspace
Samson bought 3 bags which cost $12.30, $34.23 and $23.19 respectively. How much did he need to pay? Answer:	
Kayla spends 1.23 hours for English reading, 1.40 hours for Math and 0.39 hours for Science. How many hours does she spend studying? Answer:	
Kevin measures a triangular plate whose sides are 12.4 inches, 9.45 inches and 10.35 inches respectively. What is the perimeter of a triangular plate? Answer:	
Catherine bought a tomato, a chicken and an onion. The respective weights of these items were 2.12 kg, 1.45 kg and 3.19 kg. What is the total weight of the items bought? Answer:	

Student Name: _____ Score:

Decimals Subtraction Word Problems

Questions	Workspace
Katherine bought cosmetic items which cost $78.12 in total. She gave $100 to the shop keeper. How much does she receive as change? Answer:	
Kelly scored 56.73 points and Karen scored 74.92 points on a University exam. How many points less did Kelly score than Karen? Answer:	
A mixture is obtained by mixing two products A and B respectively. Product A weighs 234.56 grams and the mixture weighs 988.76 grams. How much does Product B weigh? Answer:	
David's home is 12.53 miles away from the lake and 16.73 miles away from his school. How far is David's school from the lake? Answer:	

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Teacher : _____ Date : _____

Combining Like Terms

1) $p + 3p$

2) $3y + 7y$

3) $5(2 + 3y)$

4) $6g - 4g$

5) $8(4p - 5)$

6) $8(2 - 6g)$

7) $8 + 9s - 6s$

8) $7n + 9n + 4$

9) $4f \cdot 3f$

10) $4k + 9 + 7k$

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One-Step Equations – Integers

Solve the one-step equations:

$x - 4 = 1$	$y + 3 = 9$
$3g = 15$	$\frac{r}{2} = 9$
$z + 5 = 6$	$4v = 20$
$k - 2 = 4$	$\frac{h}{5} = 1$