

Daily Math

Week 5 (2013-2014)

Mon. September 16, 2012

Tues. September 17, 2012

Wed. September 18, 2012

Thurs. September 19, 2012

Fri. September 20, 2012

Monday, Sept. 16th, 2013

1st

Simplify:

$$-3 + 12 - 1$$

Monday, Sept. 16th, 2013

1st

Simplify:

$$-3 + 12 - 1$$

Answer: $-3 + 12 - 1$

$$9 - 1$$

8

Monday, Sept. 16th, 2013

2nd

If $a = -3$ and $b = 4$,

then $a + b =$

Monday, Sept. 16th, 2013

2nd

If $a = -3$ and $b = 4$,

then $a + b =$

Answer: $a + b = -3 + 4$

1

Monday, Sept. 16th, 2013

3rd

Simplify:

$$\sqrt{16} + 4$$

Monday, Sept. 16th, 2013

3rd

Simplify:

$$\sqrt{16} + 4$$

Answer: $\sqrt{16} + 4$

$$4 + 4$$

8

Monday, Sept. 16th, 2013

4th

Simplify:

$$\frac{1}{5} + \frac{2}{3} + \frac{1}{15}$$

Monday, Sept. 16th, 2013

4th

Simplify:

$$\frac{1}{5} + \frac{2}{3} + \frac{1}{15}$$

Answer:

$$\begin{array}{r} \frac{1}{5} + \frac{2}{3} + \frac{1}{15} \\ \frac{3}{15} + \frac{10}{15} + \frac{1}{15} \\ \hline \frac{14}{15} \end{array}$$

Monday, Sept. 16th, 2013

5th

Write 500% as a decimal.

Monday, Sept. 16th, 2013

5th

Write 500% as a decimal.

Answer: $500\% = 5.00$

5

Monday, Sept. 16th, 2013

6th

Simplify:

$$\frac{1}{6} + \frac{3}{4} + \frac{5}{12}$$

Monday, Sept. 16th, 2013

6th

Simplify:

$$\frac{1}{6} + \frac{3}{4} + \frac{5}{12}$$

Answer:

$$\begin{aligned} & \frac{1}{6} + \frac{3}{4} + \frac{5}{12} \\ & \frac{2}{12} + \frac{9}{12} + \frac{5}{12} = \frac{16}{12} \\ & \frac{16 \div 4}{12 \div 4} = \frac{4}{3} \end{aligned}$$

Monday, Sept. 16th, 2013

7th

Which is between -2 and -3?

$$-\frac{9}{2}, -\frac{8}{3}, -\frac{7}{4}, \text{ or } -\frac{6}{5}$$

Monday, Sept. 16th, 2013

7th

Which is between -2 and -3?

$$-\frac{9}{2}, -\frac{8}{3}, -\frac{7}{4}, \text{ or } -\frac{6}{5}$$

Answer: $-\frac{8}{3}$

Tuesday, Sept. 17, 2013 **1st**

Order from **least** to **greatest**:

$$\sqrt{2}, 2, \frac{1}{2}, -2$$

Tuesday, Sept. 17, 2013

1st

Order from **least** to **greatest**:

$$\sqrt{2}, 2, \frac{1}{2}, -2$$

Answer: $-2, \frac{1}{2}, \sqrt{2}, 2$

Tuesday, Sept. 17, 2013

2nd

Simplify:

$$4 + (-7)$$

Tuesday, Sept. 17, 2013

2nd

Simplify:

$$4 + (-7)$$

Answer: **-3**

Tuesday, Sept. 17, 2013

3rd

Find the next two numbers in the following pattern:

5, 2, -1, -4, _____, _____

Tuesday, Sept. 17, 2013

3rd

Find the next two numbers in the following pattern:

5, 2, -1, -4, _____, _____

Answer: 5, 2, -1, -4, **-7**, **-10**

Tuesday, Sept. 17, 2013

4th

Find $-2a + b$, if $a = 5$ and $b = 15$

Tuesday, Sept. 17, 2013

4th

Find $-2a + b$, if $a = 5$ and $b = 15$

Answer:

$$\begin{aligned} & -2a + b \\ & -2(5) + 15 \\ & -10 + 15 \\ & \mathbf{5} \end{aligned}$$

Tuesday, Sept. 17, 2013

5th

Simplify:

$$\frac{2}{3} \cdot \frac{3}{4}$$

Tuesday, Sept. 17, 2013

5th

Simplify:

$$\frac{2}{3} \cdot \frac{3}{4}$$

Answer:

$$\begin{aligned} \frac{2}{3} \cdot \frac{3}{4} \\ \frac{6}{12} &= \frac{6 \div 6}{12 \div 6} \\ &= \frac{1}{2} \end{aligned}$$

Tuesday, Sept. 17, 2013

6th

What is 10% of 5?

Tuesday, Sept. 17, 2013

6th

What is 10% of 5?

Answer: 10% of 5

0.10 (5)

0.5

Tuesday, Sept. 17, 2013

7th

Simplify:

$$\frac{6 + 5 \cdot 3}{3}$$

Tuesday, Sept. 17, 2013

7th

Simplify:

$$\frac{6 + 5 \cdot 3}{3}$$

Answer:

$$\frac{6+5 \cdot 3}{3}$$

$$\frac{6+15}{3}$$

$$\frac{21}{3} = 7$$

Wednesday, Sept. 18th, 2013

1st

What is 40% of 10?

Wednesday, Sept. 18th, 2013

1st

What is 40% of 10?

Answer: 40% of 10

0.40 (10)

4

Wednesday, Sept. 18th, 2013 **2nd**

Solve for x : $2x + 5 = 11$

Wednesday, Sept. 18th, 2013 2nd

Solve for x : $2x + 5 = 11$

Answer:

$$2x + 5 = 11$$

$$2x + 5 - 5 = 11 - 5$$

$$2x = 6$$

$$2x \div 2 = 6 \div 2$$

$$x = 3$$

Wednesday, Sept. 18th, 2013

3rd

Simplify: $2 - 3 + 1$

Wednesday, Sept. 18th, 2013

3rd

Simplify: $2 - 3 + 1$

Answer: $2 - 3 + 1$

0

Wednesday, Sept. 18th, 2013 4th

If $a = 3$ and $b = 8$,

then $2a - b =$

Wednesday, Sept. 18th, 2013 4th

If $a = 3$ and $b = 8$,

then $2a - b =$

Answer: $2a - b =$

$$2(3) - 8 =$$

$$6 - 8 = -2$$

Wednesday, Sept. 18th, 2013 5th

Classify each as **rational** or **irrational**:

$$\frac{2}{3}, 0.\overline{33}, \sqrt{4}, \pi$$

Wednesday, Sept. 18th, 2013 5th

Classify each as **rational** or **irrational**:

$$\frac{2}{3}, 0.\overline{33}, \sqrt{4}, \pi$$

Answer: **Rational:** $\frac{2}{3}, 0.\overline{33}, \sqrt{4}$

Irrational: π

Wednesday, Sept. 18th, 2013

6th

Simplify: $3(2-1) + 3$

Wednesday, Sept. 18th, 2013

6th

Simplify: $3(2-1) + 3$

Answer: $3(2-1) + 3$

$3(1) + 3$

6

Wednesday, Sept. 18th, 2013

7th

Simplify: $(-15) + (-5)$

Wednesday, Sept. 18th, 2013

7th

Simplify: $(-15) + (-5)$

Answer: **-20**

Thursday, Sept. 19, 2013

1st

Simplify:

$$208 - 3^2(5 + 8)$$

Thursday, Sept. 19, 2013

1st

Simplify:

$$208 - 3^2(5 + 8)$$

Answer: $208 - 3^2(5 + 8)$

$$208 - 3^2(13)$$

$$208 - 9(13)$$

$$208 - 117 = \mathbf{91}$$

Thursday, Sept. 19, 2013

2nd

Simplify:

$$(53 - 5) \div 2^3 + 7$$

Thursday, Sept. 19, 2013

2nd

Simplify:

$$(53 - 5) \div 2^3 + 7$$

Answer: $(53 - 5) \div 2^3 + 7$

$$(48) \div 2^3 + 7$$

$$48 \div 8 + 7$$

$$6 + 7 = \mathbf{13}$$

Thursday, Sept. 19, 2013

3rd

Simplify:

$$\frac{8 + 2^2 + 3^2}{7}$$

Thursday, Sept. 19, 2013

3rd

Simplify:

$$\frac{8 + 2^2 + 3^2}{7}$$

Answer:

$$\frac{8+2^2+3^2}{7}$$
$$\frac{8+4+9}{7} = \frac{21}{7}$$

3

Thursday, Sept. 19, 2013

4th

Evaluate: x^2y^3z

if $x = 3, y = -2, z = 4$

Thursday, Sept. 19, 2013

4th

Evaluate: x^2y^3z

if $x = 3, y = -2, z = 4$

Answer: x^2y^3z

$$3^2(-2)^3 4$$

$$9(-8)4 = -288$$

Thursday, Sept. 19, 2013

5th

Simplify:

$$-3(4 - 3) - 3 - |-3|$$

Thursday, Sept. 19, 2013

5th

Simplify:

$$-3(4 - 3) - 3 - |-3|$$

Answer: $-3(4 - 3) - 3 - |-3|$

$$-3(1) - 3 - 3$$

-9

Thursday, Sept. 19, 2013

6th

Simplify:

$$\frac{8 + 2 - 3(2)}{3(2) - 6}$$

Thursday, Sept. 19, 2013

6th

Simplify:

$$\frac{8 + 2 - 3(2)}{3(2) - 6}$$

Answer: $\frac{8+2-3(2)}{3(2)-6}$

$$\frac{8+2-6}{6-6} = \frac{4}{0};$$

undefined (can't divide by zero)

Thursday, Sept. 19, 2013

7th

Simplify:

$$\frac{7}{12} + \frac{5}{6}$$

Thursday, Sept. 19, 2013

7th

Simplify:

$$\frac{7}{12} + \frac{5}{6}$$

Answer:

$$\begin{array}{r} \frac{7}{12} + \frac{5}{6} \\ \frac{7}{12} + \frac{10}{12} \\ \frac{17}{12} \end{array}$$

Friday, Sept. 20, 2013

1st

Order from **least** to **greatest**:

$$0.3, \frac{1}{2}, 0.56$$

Friday, Sept. 20, 2013

1st

Order from **least** to **greatest**:

$0.3, \frac{1}{2}, 0.56$

Answer: **$0.3, \frac{1}{2}, 0.56$**

Friday, Sept. 20, 2013

2nd

Simplify:

$$4 - (-7)$$

Friday, Sept. 20, 2013

2nd

Simplify:

$$4 - (-7)$$

Answer: $4 - (-7)$

$$4 + (+7)$$

11

Friday, Sept. 20, 2013

3rd

If $a = 0$ and $b = -4$, then $a^2 - b =$

Friday, Sept. 20, 2013

3rd

If $a = 0$ and $b = -4$, then $a^2 - b =$

Answer: $a^2 - b =$
 $0^2 - (-4)$
 $0 + 4 = 4$

Friday, Sept. 20, 2013

4th

Find the next two numbers in the following pattern:

2, 4, 8, 16, _____, _____

Friday, Sept. 20, 2013

4th

Find the next two numbers in the following pattern:

2, 4, 8, 16, _____, _____

Answer: 2, 4, 8, 16, **32**, **64**

Friday, Sept. 20, 2013

5th

Simplify:

$$-3 + (-5) =$$

Friday, Sept. 20, 2013

5th

Simplify:

$$-3 + (-5) =$$

Answer: **-8**

Friday, Sept. 20, 2013

6th

Simplify:

$$\frac{4}{9} \cdot \frac{15}{16}$$

Friday, Sept. 20, 2013

6th

Simplify:

$$\frac{4}{9} \cdot \frac{15}{16}$$

Answer:

$$\frac{4}{9} \cdot \frac{15}{16}$$
$$\frac{60}{144} = \frac{60 \div 12}{144 \div 12} = \frac{5}{12}$$

Friday, Sept. 20, 2013

7th

If a recipe calls for $3\frac{1}{2}$ cups of flour,
how much flour in HALF a recipe?

Friday, Sept. 20, 2013

7th

If a recipe calls for $3\frac{1}{2}$ cups of flour,
how much flour in HALF a recipe?

Answer: $\frac{1}{2}$ of $3\frac{1}{2}$

$$\frac{1}{2} \cdot \frac{7}{2} = \frac{7}{4}$$

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