

# Daily Math

## Week 4 (2013-2014)

Mon. September 9, 2012

Tues. September 10, 2012

Wed. September 11, 2012

Thurs. September 12, 2012

Fri. September 13, 2012

Monday, Sept. 9th, 2013 **1<sup>st</sup>**

Order from **greatest to least**:

$$\frac{1}{18}, \frac{2}{9}, \frac{1}{3}$$

Monday, Sept. 9th, 2013

1<sup>st</sup>

Order from **greatest to least**:

$$\frac{1}{18}, \frac{2}{9}, \frac{1}{3}$$

Answer:  $\frac{1}{3}, \frac{2}{9}, \frac{1}{18}$

Monday, Sept. 9th, 2013

2<sup>nd</sup>

In the first quarter of a game, a football team gained 20 yards, lost 15 yards, lost 3 yards, and then gained another 7 yards. What was their total loss or gain?

Monday, Sept. 9th, 2013

2<sup>nd</sup>

In the first quarter of a game, a football team gained 20 yards, lost 15 yards, lost 3 yards, and then gained another 7 yards. What was their total loss or gain?

Answer:  $20 - 15 - 3 + 7$

$5 - 3 + 7$

$2 + 7 = 9$  yards gained

Monday, Sept. 9th, 2013

3<sup>rd</sup>

Eric bought a block of fudge that weighed  $\frac{1}{2}$  of a pound. He cut the fudge into 4 equal pieces. What was the weight of each piece of fudge?

Monday, Sept. 9th, 2013

3<sup>rd</sup>

Eric bought a block of fudge that weighed  $\frac{1}{2}$  of a pound. He cut the fudge into 4 equal pieces. What was the weight of each piece of fudge?

Answer:  $\frac{1}{2} \div 4$

$$\frac{1}{2} \times \frac{1}{4} = \frac{1}{8} \text{ pound}$$

Monday, Sept. 9th, 2013

4<sup>th</sup>

Simplify:

$$20 - 3^2 - 2(4 - 3)$$



Monday, Sept. 9th, 2013

4<sup>th</sup>

Simplify:

$$20 - 3^2 - 2(4 - 3)$$

Answer:  $20 - 3^2 - 2(4 - 3)$

$$20 - 3^2 - 2(1)$$

$$20 - 9 - 2$$

$$11 - 2 = \mathbf{9}$$

Monday, Sept. 9th, 2013

5<sup>th</sup>

Write  $\frac{1}{12}$  as a decimal.

Monday, Sept. 9th, 2013

5<sup>th</sup>

Write  $\frac{1}{12}$  as a decimal.

Answer:  $\frac{1}{12} = 1 \div 12$   
 $= \mathbf{0.08\bar{3}}$

Monday, Sept. 9th, 2013

6<sup>th</sup>

Simplify  $\frac{9}{27}$

Monday, Sept. 9th, 2013

6<sup>th</sup>

Simplify  $\frac{9}{27}$

Answer:  $\frac{9}{27} = \frac{9 \div 9}{27 \div 9}$

$\frac{1}{3}$

Monday, Sept. 9th, 2013

7<sup>th</sup>

Simplify

$$\frac{10000}{25000}$$

Monday, Sept. 9th, 2013

7<sup>th</sup>

Simplify

$$\frac{10000}{25000}$$

Answer:

$$\frac{10000}{25000} = \frac{10000 \div 1000}{25000 \div 1000}$$

$$\frac{10}{25} = \frac{10 \div 5}{25 \div 5} = \frac{2}{5}$$

Tuesday, Sept. 10th, 2013

1<sup>st</sup>

Simplify:

$$24 - \sqrt{81} \div 3$$



Tuesday, Sept. 10th, 2013

1<sup>st</sup>

Simplify:

$$24 - \sqrt{81} \div 3$$

Answer:  $24 - \sqrt{81} \div 3$

$$24 - 9 \div 3$$

$$24 - 3 = \mathbf{21}$$

Tuesday, Sept. 10th, 2013

2<sup>nd</sup>

Emily bought  $2\frac{1}{2}$  yards of yellow ribbon  
and  $3\frac{1}{3}$  yards of blue ribbon. How  
many yards of ribbon did Emily buy?

Tuesday, Sept. 10th, 2013

2<sup>nd</sup>

Emily bought  $2\frac{1}{2}$  yards of yellow ribbon and  $3\frac{1}{3}$  yards of blue ribbon. How many yards of ribbon did Emily buy?

Answer:  $2\frac{1}{2} + 3\frac{1}{3} =$   
 $(2 + 3) + \left(\frac{1}{2} + \frac{1}{3}\right)$   
 $5 + \left(\frac{3}{6} + \frac{2}{6}\right) = 5\frac{5}{6} \text{ yards}$

Tuesday, Sept. 10th, 2013

3<sup>rd</sup>

Jan has 9 yards of material to make baby blankets. Each blanket requires  $\frac{3}{4}$  yd of material. How many blankets can be made?

Tuesday, Sept. 10th, 2013

3<sup>rd</sup>

Jan has 9 yards of material to make baby blankets. Each blanket requires  $\frac{3}{4}$  yd of material. How many blankets can be made?

Answer:  $9 \div \frac{3}{4}$   
 $9 \times \frac{4}{3} = \frac{9 \times 4}{3} = \frac{36}{3}$

**12 blankets**

Tuesday, Sept. 10th, 2013

4<sup>th</sup>

Simplify:

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

Tuesday, Sept. 10th, 2013

4<sup>th</sup>

Simplify:

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

Answer:  $2\frac{1}{5} + \frac{2}{15} \cdot \frac{3}{2}$

$$2\frac{1}{5} + \frac{6}{30} = 2\frac{1}{5} + \frac{1}{5}$$

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

Tuesday, Sept. 10th, 2013

5<sup>th</sup>

Simplify:

$$2(3) - (1 + 3) + 2^3$$



Tuesday, Sept. 10th, 2013

5<sup>th</sup>

Simplify:

$$2(3) - (1 + 3) + 2^3$$

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

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

$$2(3) - 4 + 8$$

$$6 - 4 + 8 = 2 + 8 = \mathbf{10}$$

Tuesday, Sept. 10th, 2013

6<sup>th</sup>

If  $x = 4$ ,  $y = 3$ , and  $z = 1$ ,

then  $y(\sqrt{x} + z) =$

Tuesday, Sept. 10th, 2013

6<sup>th</sup>

If  $x = 4$ ,  $y = 3$ , and  $z = 1$ ,

then  $y(\sqrt{x} + z) =$

Answer:  $y(\sqrt{x} + z)$

$3(\sqrt{4} + 1)$

$3(2 + 1)$

$3(3) = 9$

Tuesday, Sept. 10th, 2013

7<sup>th</sup>

Order from **least to greatest**:

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

Tuesday, Sept. 10th, 2013

7<sup>th</sup>

Order from **least to greatest**:

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

Answer:  $\frac{2}{3}, \frac{3}{4}, \frac{3}{2}$

Wednesday, Sept. 11<sup>th</sup>, 2013

1<sup>st</sup>

Simplify

$$\frac{2.5}{5}$$

Wednesday, Sept. 11<sup>th</sup>, 2013

1<sup>st</sup>

Simplify:

$$\frac{2.5}{5}$$

Answer:  $\frac{2.5}{5} = \frac{2.5 \div 2.5}{5 \div 2.5}$

$$\frac{1}{2}$$

**Wednesday, Sept. 11<sup>th</sup>, 2013**    **2<sup>nd</sup>**

A turkey farmer has 989.72 pounds of turkey for sale at the beginning of November. At the end of the month, he has 27.9 pounds left. How many pounds did he sell in November?



## Wednesday, Sept. 11<sup>th</sup>, 2013 2nd

A turkey farmer has 989.72 pounds of turkey for sale at the beginning of November. At the end of the month, he has 27.9 pounds left. How many pounds did he sell in November?

Answer:

*Beginning Amount* – *Sold* = *Leftover*

$$989.72 - x = 27.9$$

$$989.72 - x + x = 27.9 + x$$

$$989.72 - 27.9 = x$$

**961.82 pounds sold**

Wednesday, Sept. 11<sup>th</sup>, 2013      3<sup>rd</sup>

A recipe for cake requires  $\frac{4}{5}$  cup of butter. A low-fat version of this recipe replaces half of the butter with an equal amount of applesauce. How much applesauce is needed to make the low-fat recipe?

Wednesday, Sept. 11<sup>th</sup>, 2013 3rd

A recipe for cake requires  $\frac{4}{5}$  cup of butter. A low-fat version of this recipe replaces half of the butter with an equal amount of applesauce. How much applesauce is needed to make the low-fat recipe?

Answer:  $\frac{1}{2}$  of  $\frac{4}{5} = \frac{1}{2} \times \frac{4}{5}$

$\frac{4}{5}$

Wednesday, Sept. 11<sup>th</sup>, 2013

4th

Solve for  $y$ :

$$3y = -27$$

Wednesday, Sept. 11<sup>th</sup>, 2013

4th

Solve for  $y$ :

$$3y = -27$$

Answer:  $3y = -27$

$$3y \div 3 = -27 \div 3$$

$$y = -9$$

Wednesday, Sept. 11<sup>th</sup>, 2013 5<sup>th</sup>

Order these numbers from **least to greatest**:

$$\frac{1}{3}, -2, 1.4, 0.65, -1\frac{1}{4}$$

Wednesday, Sept. 11<sup>th</sup>, 2013 5<sup>th</sup>

Order these numbers from **least to greatest**:

$$\frac{1}{3}, -2, 1.4, 0.65, -1\frac{1}{4}$$

Answer:  **$-2, -1\frac{1}{4}, \frac{1}{3}, 0.65, 1.4$**

Wednesday, Sept. 11<sup>th</sup>, 2013

6<sup>th</sup>

Simplify:

$$\frac{3^2 + 5}{2}$$



Wednesday, Sept. 11<sup>th</sup>, 2013

6<sup>th</sup>

Simplify:

$$\frac{3^2 + 5}{2}$$

Answer:

$$\frac{3^2 + 5}{2}$$

$$\frac{9 + 5}{2} = \frac{14}{2} = 7$$

Wednesday, Sept. 11<sup>th</sup>, 2013 7<sup>th</sup>

The number  $\sqrt{24}$  lies between which two whole numbers?

Wednesday, Sept. 11<sup>th</sup>, 2013 7<sup>th</sup>

The number  $\sqrt{24}$  lies between which two whole numbers?

Answer:  $\sqrt{16} < \sqrt{24} < \sqrt{25}$

$$4 < \sqrt{24} < 5$$

Thursday, Sept. 12th, 2013

**1st**

Write  $\frac{2}{3}$  as a decimal.

Thursday, Sept. 12th, 2013

1st

Write  $\frac{2}{3}$  as a decimal.

Answer:  $2 \div 3$   
 $= 0.\overline{6}$

Thursday, Sept. 12th, 2013

2nd

If I walk for  $\frac{1}{4}$  of an hour, run for  $\frac{1}{3}$  of an hour, and walk for another  $\frac{1}{6}$  of an hour, how much total time did I spend exercising?

# Thursday, Sept. 12th, 2013

## 2nd

If I walk for  $\frac{1}{4}$  of an hour, run for  $\frac{1}{3}$  of an hour, and walk for another  $\frac{1}{6}$  of an hour, how much total time did I spend exercising?

Answer: 
$$\frac{1}{4} + \frac{1}{3} + \frac{1}{6} =$$
$$\frac{3}{12} + \frac{4}{12} + \frac{2}{12} = \frac{9}{12}$$
$$\frac{9 \div 3}{12 \div 3} = \frac{3}{4} \text{ hr}$$

Thursday, Sept. 12th, 2013

3rd

A radio station has to have 36 minutes for commercials. How many  $\frac{3}{4}$  minute commercials can fit in 36 minutes?



# Thursday, Sept. 12th, 2013

# 3rd

A radio station has to have 36 minutes for commercials. How many  $\frac{3}{4}$  minute commercials can fit in 36 minutes?

Answer:

Total time  $\div$  length of one commercial = number of commercials

$$36 \div \frac{3}{4} = 36 \times \frac{4}{3}$$
$$\frac{36 \times 4}{3} = \frac{144}{3} = \mathbf{48 \text{ commercials}}$$

Thursday, Sept. 12th, 2013

**4th**

Write 1.23 as a percentage.

Thursday, Sept. 12th, 2013

4th

Write 1.23 as a percentage.

Answer: **123%**

Thursday, Sept. 12th, 2013

**5th**

Compare 180% \_\_\_ 2

Thursday, Sept. 12th, 2013

5th

Compare  $180\%$  \_\_\_  $2$

Answer:  $180\% = 1.80$ , so

$$180\% < 2$$

Thursday, Sept. 12th, 2013

6th

Simplify:

$$(2 + -3) + (14 + -5)$$

Thursday, Sept. 12th, 2013

6th

Simplify:

$$(2 + -3) + (14 + -5)$$

Answer:  $(2 + -3) + (14 + -5)$

$$-1 + 9$$

**8**

Thursday, Sept. 12th, 2013

7th

Simplify:

$$-12 - 24 \div 3 \cdot 2 + 7$$



Thursday, Sept. 12th, 2013

7th

Simplify:

$$-12 - 24 \div 3 \cdot 2 + 7$$

Answer:  $-12 - 24 \div 3 \cdot 2 + 7$

$$-12 - 8 \cdot 2 + 7$$

$$-12 - 16 + 7$$

$$-28 + 7$$

$$\mathbf{-21}$$

Friday, Sept. 13<sup>th</sup>, 2013      **1st**

If  $a = 3$  and  $b = 4$ , then  $a^2 + b =$

Friday, Sept. 13<sup>th</sup>, 2013      **1st**

If  $a = 3$  and  $b = 4$ , then  $a^2 + b =$

Answer:  $a^2 + b =$

$$3^2 + 4 = 9 + 4$$

**13**

Friday, Sept. 13<sup>th</sup>, 2013      **2nd**

Susana bought 12.5 pounds of nails for \$0.42 per pound. What was the total cost of the nails?

Friday, Sept. 13<sup>th</sup>, 2013      **2nd**

Susana bought 12.5 pounds of nails for \$0.42 per pound. What was the total cost of the nails?

Answer: 12.5 pounds  $\times$  \$0.42 per pound  
**\$5.25**

Friday, Sept. 13<sup>th</sup>, 2013      **3rd**

A cookie factory uses  $\frac{1}{4}$  of a barrel of oatmeal in each batch of cookies. The factory used  $6\frac{1}{2}$  barrels of oatmeal yesterday. How many batches of cookies did the factory make?

Friday, Sept. 13<sup>th</sup>, 2013      3rd

A cookie factory uses  $\frac{1}{4}$  of a barrel of oatmeal in each batch of cookies. The factory used  $6\frac{1}{2}$  barrels of oatmeal yesterday. How many batches of cookies did the factory make?

Answer: Total  $\div$  Amount per batch = # of batches

$$6\frac{1}{2} \div \frac{1}{4} = \frac{13}{2} \cdot \frac{4}{1}$$
$$\frac{52}{2} = \mathbf{26 \text{ batches}}$$

Friday, Sept. 13<sup>th</sup>, 2013

**4th**

Compare 6 \_\_\_\_\_  $\sqrt{35}$



Friday, Sept. 13<sup>th</sup>, 2013

4th

Compare 6 \_\_\_\_\_  $\sqrt{35}$

Answer:  $6 = \sqrt{36}$ , so

$$6 > \sqrt{35}$$

Friday, Sept. 13<sup>th</sup>, 2013

**5th**

Simplify  $3x - 2x + 4$

Friday, Sept. 13<sup>th</sup>, 2013

5th

Simplify  $3x - 2x + 4$

Answer:  $3x - 2x + 4$

$(3 - 2)x + 4$

**$x + 4$**

Friday, Sept. 13<sup>th</sup>, 2013

6th

Simplify:

$$28 + 0 \div 4 - 10 \cdot 2$$

Friday, Sept. 13<sup>th</sup>, 2013

6th

Simplify:

$$28 + 0 \div 4 - 10 \cdot 2$$

Answer:  $28 + 0 \div 4 - 10 \cdot 2$

$$28 + 0 - 20$$

**8**

Friday, Sept. 13<sup>th</sup>, 2013

**7th**

Simplify:

$$34 - 5(24 - 18)$$

Friday, Sept. 13<sup>th</sup>, 2013

7th

Simplify:

$$34 - 5(24 - 18)$$

Answer:  $34 - 5(24 - 18)$

$$34 - 5(6)$$

$$34 - 30 = 4$$