

# Daily Math

## Week 3 (2013-2014)

Mon. September 3, 2012 Labor Day

Tues. September 3, 2012

Wed. September 4, 2012

Thurs. September 5, 2012

Fri. September 6, 2012

Tuesday, September 3, 2013

1<sup>st</sup>

Place the following numbers on the number line:  $\sqrt{2}$ , 1,  $\frac{1}{2}$ , 0.75



Tuesday, September 3, 2013 1<sup>st</sup>

Place the following numbers on the number line:  $\sqrt{2}$ , 1,  $\frac{1}{2}$ , 0.75



Tuesday, September 3, 2013

2<sup>nd</sup>

Simplify:

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

Tuesday, September 3, 2013

2<sup>nd</sup>

Simplify:

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

Answer:

$$2 \div \frac{1}{2} = 2 \times \frac{2}{1}$$

**4**

Tuesday, September 3, 2013

3<sup>rd</sup>

Simplify:

$$3 - (2 - 1) + 4$$

Tuesday, September 3, 2013

3<sup>rd</sup>

Simplify:

$$3 - (2 - 1) + 4$$

Answer:

$$3 - (2 - 1) + 4$$

$$3 - 1 + 4$$

**6**

Tuesday, September 3, 2013 4<sup>th</sup>

Find the seventh term in the following pattern:

1, 1.5, 2, 2.5, 3, ...



Tuesday, September 3, 2013 4<sup>th</sup>

Find the seventh term in the following pattern:

1, 1.5, 2, 2.5, 3, ...

Answer: 1, 1.5, 2, 2.5, 3, \_\_, \_\_

1, 1.5, 2, 2.5, 3, 3.5, **4**

Tuesday, September 3, 2013

5<sup>th</sup>

Compare:

$$(1 \div 3) \text{ ————— } \frac{1}{3}$$

Tuesday, September 3, 2013

5<sup>th</sup>

Compare:

$$(1 \div 3) \text{ — } \frac{1}{3}$$

Answer:  $(1 \div 3) = \frac{1}{3}$

Tuesday, September 3, 2013

6<sup>th</sup>

What is 50% of 106?

Tuesday, September 3, 2013

6<sup>th</sup>

What is 50% of 106?

Answer:        50% of 106  
                      (0.50) x 106

**53**

Tuesday, September 3, 2013

7<sup>th</sup>

What percent of 30 is 3?

Tuesday, September 3, 2013

7<sup>th</sup>

What percent of 30 is 3?

Answer:  $x\%$  of 30 = 3

$$(x)30 = 3$$

$$x = \frac{3}{30} = 0.10$$

**10%**

Wednesday, Sept. 4, 2013

1<sup>st</sup>

Which two whole numbers does  $\sqrt{46}$  lie between on the real number line?



Wednesday, Sept. 4, 2013

1<sup>st</sup>

Which two whole numbers does  $\sqrt{46}$  lie between on the real number line?

Answer:  $\sqrt{36} < \sqrt{46} < \sqrt{49}$

$$6 < \sqrt{46} < 7$$

Wednesday, Sept. 4, 2013

2nd

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

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

Wednesday, Sept. 4, 2013

2nd

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

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

Answer: rational numbers can be expressed as a fraction (a ratio of integers)

**rational:**  $\frac{2}{3}, 0.\overline{33} = \frac{1}{3}, \sqrt{4} = \frac{2}{1}$

**irrational:**  $\pi$

Wednesday, Sept. 4, 2013

**3rd**

What is 65% of 200?

Wednesday, Sept. 4, 2013

3rd

What is 65% of 200?

Answer: 65% of 200

$(0.65) 200$

**130**

Wednesday, Sept. 4, 2013

4th

Solve for  $x$ :

$$x - 3 = 7$$

Wednesday, Sept. 4, 2013

4th

Solve for  $x$ :

$$x - 3 = 7$$

Answer:

$$x - 3 = 7$$

$$x - 3 + 3 = 7 + 3$$

$$x = 10$$

Wednesday, Sept. 4, 2013

5<sup>th</sup>

Compare:

30% \_\_\_\_\_ 0.33



Wednesday, Sept. 4, 2013

5<sup>th</sup>

Compare:

30% \_\_\_\_\_ 0.33

Answer: 30% < 0.33

Wednesday, Sept. 4, 2013

6<sup>th</sup>

If we start with 3 pennies in a jar, but add 5 pennies each day, how many pennies would be in the jar at the end of day 3?

Wednesday, Sept. 4, 2013

6<sup>th</sup>

If we start with 3 pennies in a jar, but add 5 pennies each day, how many pennies would be in the jar at the end of day 3?

Answer:  $3 + 5$  (day 1)  $+ 5$  (day 2)  $+ 5$  (day 3)

**18 pennies**

Wednesday, Sept. 4, 2013

7<sup>th</sup>

What percent of 40 is 15?

Wednesday, Sept. 4, 2013

7<sup>th</sup>

What percent of 40 is 15?

Answer:  $x\%$  of 40 = 15

$$(x) 40 = 15$$

$$x = \frac{15}{40} = 0.375$$

**37.5%**

Thursday, Sept. 5, 2013

1st

Order the following from **greatest** to **least**:

$$\frac{1}{16}, \frac{3}{8}, \frac{1}{2}$$

Thursday, Sept. 5, 2013 1st

Order the following from **greatest** to **least**:

$$\frac{1}{16}, \frac{3}{8}, \frac{1}{2}$$

Answer:  $\frac{1}{16} = \frac{4}{16}; \frac{3}{8} = \frac{6}{16}; \frac{1}{2} = \frac{8}{16}$

$$\frac{1}{2}, \frac{3}{8}, \frac{1}{16}$$

Thursday, Sept. 5, 2013

2nd

Simplify:

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



Thursday, Sept. 5, 2013

2nd

Simplify:

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

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

$$20 - 3^2 + 2$$

$$20 - 9 + 2$$

**13**

Thursday, Sept. 5, 2013

3rd

Write  $\frac{1}{5}$  as a decimal.

Thursday, Sept. 5, 2013

3rd

Write  $\frac{1}{5}$  as a decimal.

Answer:  $1 \div 5$

**0.2**

Thursday, Sept. 5, 2013

4th

What two whole numbers does  $\sqrt{12}$  lie between on the real number line?

Thursday, Sept. 5, 2013

4th

What two whole numbers does  $\sqrt{12}$  lie between on the real number line?

Answer:  $\sqrt{9} < \sqrt{12} < \sqrt{16}$

$$3 < \sqrt{12} < 4$$

Thursday, Sept. 5, 2013

5th

Classify each of the following **rational**  
or **irrational**:

$$4, \sqrt{9}, \frac{\pi}{2}, \sqrt{5}$$

Thursday, Sept. 5, 2013

5th

Classify each of the following **rational** or **irrational**:

$$4, \sqrt{9}, \frac{\pi}{2}, \sqrt{5}$$

**Answer:** rational numbers can be expressed as a fraction (a ratio of integers)

**rational:**  $4, \sqrt{9} = \frac{3}{1}$

**irrational:**  $\frac{\pi}{2}, \sqrt{5}$

Thursday, Sept. 5, 2013

6th

Solve for  $x$ :

$$2x = 10$$



Thursday, Sept. 5, 2013

6th

Solve for  $x$ :

$$2x = 10$$

Answer:  $2x = 10$

$$2x \div 2 = 10 \div 2$$

$$x = 5$$

Thursday, Sept. 5, 2013

7th

What is 60% of 14 ft?

Thursday, Sept. 5, 2013

7th

What is 60% of 14 ft?

Answer:           60% of 14

(0.60) 14

**8.4 ft**

Friday, Sept. 6, 2013

**1st**

Which two whole numbers does  $\sqrt{74}$  lie between on the real number line?

Friday, Sept. 6, 2013

1st

Which two whole numbers does  $\sqrt{74}$  lie between on the real number line?

Answer:  $\sqrt{64} < \sqrt{74} < \sqrt{81}$

$$8 < \sqrt{74} < 9$$

Friday, Sept. 6, 2013

2nd

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

$$\frac{1}{4}, 0.55, \sqrt{18}, 4\pi$$

Friday, Sept. 6, 2013

2nd

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

$$\frac{1}{4}, 0.55, \sqrt{18}, 4\pi$$

**Answer:** rational numbers can be expressed as a fraction (a ratio of integers)

**rational:**  $\frac{1}{4}, 0.\overline{55} = \frac{5}{9}$

**irrational:**  $4\pi, \sqrt{18}$

Friday, Sept. 6, 2013

**3rd**

If a shirt is on sale for 15% off the regular price of \$20, how much is the sale price?



Friday, Sept. 6, 2013

3rd

If a shirt is on sale for 15% off the regular price of \$20, how much is the sale price?

Answer: \$20 (100%-15%)

$$\$20 (85\%) = \$20 (0.85)$$

**\$17**

Friday, Sept. 6, 2013

4th

Find the next two numbers in the pattern:

9, 18, 27, 36, \_\_\_\_\_, \_\_\_\_\_

Friday, Sept. 6, 2013

4th

Find the next two numbers in the pattern:

9, 18, 27, 36, \_\_\_\_\_, \_\_\_\_\_

Answer: 9, 18, 27, 36, **45**, **54**

Friday, Sept. 6, 2013

5th

Simplify:

$$5 \div \frac{1}{5}$$

Friday, Sept. 6, 2013

5th

Simplify:

$$5 \div \frac{1}{5}$$

Answer:  $5 \div \frac{1}{5} = 5 \times \frac{5}{1}$   
**25**

Friday, Sept. 6, 2013

6th

Compare:

$$\frac{2}{3} \text{ — } 0.6$$

Friday, Sept. 6, 2013

6th

Compare:

$$\frac{2}{3} \text{ — } 0.6$$

Answer:  $\frac{2}{3} > 0.6$

Friday, Sept. 6, 2013

**7th**

16 inches is 40% of what?



Friday, Sept. 6, 2013

7th

16 inches is 40% of what?

Answer: 40% of  $n = 16$

$$(0.40) n = 16$$

$$n = \frac{16}{0.4} = \frac{160}{4}$$

**40**