

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

1st

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



Tuesday, September 3, 2013 1st

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



Tuesday, September 3, 2013

2nd

Simplify:

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

Tuesday, September 3, 2013

2nd

Simplify:

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

Answer:

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

4

Tuesday, September 3, 2013

3rd

Simplify:

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

Tuesday, September 3, 2013

3rd

Simplify:

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

Answer:

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

$$3 - 1 + 4$$

6

Tuesday, September 3, 2013 4th

Find the seventh term in the following pattern:

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

Tuesday, September 3, 2013 4th

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

5th

Compare:

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

Tuesday, September 3, 2013

5th

Compare:

$$(1 \div 3) \text{ — } \frac{1}{3}$$

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

Tuesday, September 3, 2013

6th

What is 50% of 106?

Tuesday, September 3, 2013

6th

What is 50% of 106?

Answer: 50% of 106
 (0.50) x 106

53

Tuesday, September 3, 2013

7th

What percent of 30 is 3?

Tuesday, September 3, 2013

7th

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

1st

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

Wednesday, Sept. 4, 2013

1st

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: π

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

5th

Compare:

30% _____ 0.33

Wednesday, Sept. 4, 2013

5th

Compare:

30% _____ 0.33

Answer: 30% < 0.33

Wednesday, Sept. 4, 2013

6th

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

6th

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

7th

What percent of 40 is 15?

Wednesday, Sept. 4, 2013

7th

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