11 January 2011 DAY 2

1 st 5 No Calculator

1. $3\left[(2-3)+5\right]-3\bullet 4$

2. $2\bullet 3-4\div 2+3-5$

3. $2^2+(3-2)^2-6\div 2=$

Numbers Day 2

Kuta Software - Infinite Algebra 1 Name_____

Order of Operations PW1 Date_____

Evaluate each expression.

1) $3(6+7)$ 39
39

2) $5\times 3\times 2$ 30
30

3) $72\div 9+7$ 15
15

4) $2+7\times 5$ 37
37

5) $9+8-7$ 10
10

6) $9-32\div 4$ 1
1

7) $5(10-1)$ 45
45

8) $48\div(4+4)$ 6
6

9) $20\div(4-(10-8))$ 10
10

10) $40\div 4-(5-3)$ 8
8

11) $9+9+6-5$ 19
19

12) $(5+16)\div 7-2$ 1
1

13) $7+10\times 5+10$ 67
67

14) $(6+25-7)\div 6$ 4
4

15) $(6-4)\times 49\div 7$ 14
14

16) $(7\times 5)\div 5$ 7
7

17) $\frac{43-1}{4+2}+10$ 17
17

18) $(8+5)\times\frac{35}{5}+6$ 97
97

Numbers Day 2

19) $\frac{27}{2+3+4}+3$ 6
6

20) $\frac{45}{8(5-4)-3}$ 9
9

21) $8\times\frac{15}{5}-(5+9)$ 10
10

22) $2\times 7-\frac{10}{9-4}$ 12
12

23) $(10+2-2)\times 6-1$ 59
59

24) $\frac{49}{7}\times\frac{60}{2\times 5}$ 42
42

25) $(2+6\times 2+2-4)\times 2$ 24
24

26) $\frac{8}{5-1}\times(3+6)\times 3$ 54
54

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17) $\frac{(43-1)}{(4+2)}+10$

$\frac{42}{6}+10$

$7+10$

17

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13) $7+10\times 5+10$

$7+50+10$

$57+10$

67

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6) $9-32\div 4$

$9-8$

1

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24) $\frac{49}{7} \times \frac{60}{(2 \times 5)}$

$\frac{49}{7} \times \frac{60}{10}$

$\frac{7}{1} \times \frac{60}{10} = \frac{420.}{10} = 42$

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22) $2 \times 7 - \frac{10}{(9-4)}$

$2 \times 7 - \frac{10}{5}$

$14 - \frac{10}{5}$

$14 - 2 = 12$

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21) $8 \times \frac{15}{5} - (5+9)$

$8 \times \frac{15}{5} - 14$

$\frac{120}{5} - 14$

$24 - 14$

10

$8 = \frac{8}{1}$

$8 = 8.0$

$5 \overline{)120}$ 24, 10, 20, 0

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20) $\frac{45}{8(5-4)-3}$

$\frac{45}{(8 \cdot 1 - 3)}$

$\frac{45}{8-3} = \frac{45}{5} = 9$

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18) $(8+5) \times \frac{35}{5} + 6$

$\frac{13}{1} \times \frac{35}{5} + 6$

$\frac{455}{5} + 6$

$91 + 6$

97

$13 = \frac{13}{1}$

$13 = 13.0$

$5 \overline{)455}$ 91, 45, 05, 5, 0

35 × 13: 105, 350, 455

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11) $9+9+6-5$

$18+6-5$

$24-5$

19

Numbers Day 2

9) $20 \div (4 - (10 - 8))$

$20 \div (4 - 2)$

$20 \div 2$

10

Numbers Day 2

25) $(2 + 6 \times 2 + 2 - 4) \times 2$

$(2 + 12 + 2 - 4) \times 2$

$(14 + 2 - 4) \times 2$

$(16 - 4) \times 2$

$12 \times 2 = 24$

Numbers Day 2

21) $\frac{8}{1} \times \frac{15}{5} - (5 + 9)$

$\frac{8}{1} \times \frac{15}{5} - 14$

$\frac{120}{5} - 14$

$24 - 14$

10

$5\overline{)120}$ 24, 10, 20, 20, 0

Numbers Day 2

- A rational number is any number that you can write as a fraction, and ~~repeats~~.

Q Rational Numbers — any decimal that repeats or terminates

↓

Z Integers {...,-2,-1,0,1,2...} ← set of integers

↓

W Whole Numbers {0,1,2,3,...}

↓

N Natural Numbers {1,2,3,...}

Numbers day 2

DAY 2

1.3 Exploring Real Numbers

Q Z W N

- Classifying Numbers
  - Name the set(s) of numbers to which each number belongs.
    - $\frac{17}{30}$ Q
    - 23 Q Z W N
    - 0 Q Z W
    - 4.581 Q

Nubmers Day 2

DAY 2

1.3 Exploring Real Numbers

- Which set of numbers is most reasonable for each situation?
  - The number of students who will go on the class trip W or N
  - The height of the door frame in your classroom Q

Numbers Day 2

DAY 2

1.3 Exploring Real Numbers

- Which set of numbers is most reasonable for each situation?
  - A temperature in a news report Z
  - The number of quarts of paint you need to buy to paint a room W or N

Numbers Day 2

DAY 2

1.3 Exploring Real Numbers

I

- An irrational number cannot be written as a fraction and does not repeat
  - Examples:
    - 0.101001000…
    - π
    - $\sqrt{2}$

& does not terminate

- Together, rational numbers and irrational numbers form the set of *real numbers*

R

Numbers Day 2

DAY 2

1.3 Exploring Real Numbers

Q I Z W N

- Classifying Numbers
  - Name the set(s) of numbers to which each number belongs.
    - -12 Q Z
    - $\frac{5}{12}$ Q
    - -4.67 Q
    - 0.31313131… Q
    - 6 Q Z W N
    - $-\sqrt{123}$ I

Numbers day 2

1.3 Exploring Real Numbers

- An inequality is a mathematical sentence that compares the value of two expressions using an inequality symbol, such as <, >, ≤, ≥, or =
- Ordering Fractions
  - Write $\frac{3}{8}, \frac{1}{2}, \frac{5}{12}$ in order from least to greatest.

$-\frac{9}{24}, -\frac{12}{24}, -\frac{10}{24}$

$-\frac{1}{2}, -\frac{5}{12}, -\frac{3}{8}$

Numbers Day 2

DAY 2

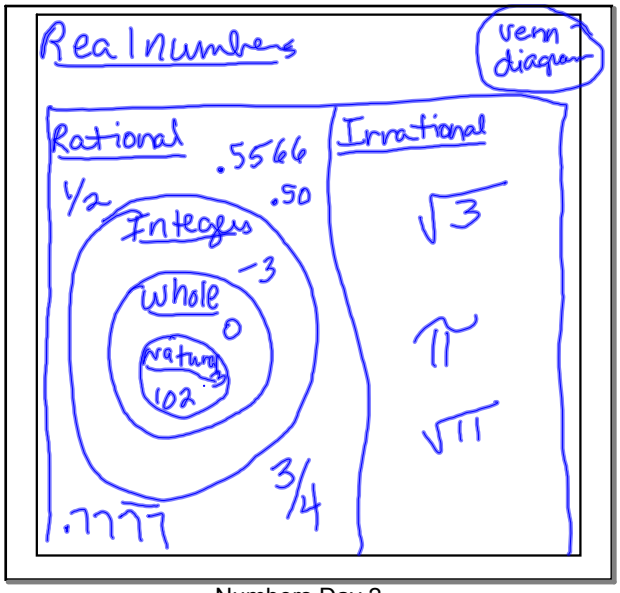
1.3 Exploring Real Numbers

- Ordering Fractions
  - Write $-\frac{2}{3}, -\frac{5}{8}, \frac{1}{12}$ in order from least to greatest.

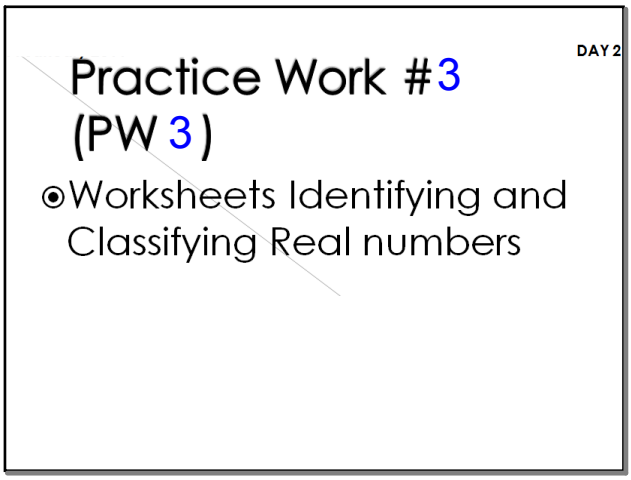
$-\frac{16}{24}, -\frac{15}{24}$

$-\frac{2}{3}, -\frac{5}{8}, \frac{1}{12}$

Numbers Day 2



Numbers Day 2



Numbers Day 2