

Number Sense and Operations – Answer Key

Page 1

A	C
C	C
C	B
B	C

Page 2

A	A
D	B
B	B
	3 hours

Page 3

C	D
A	D
A	A
C	A
D	

Page 4

C	D
B	D
3/16	C
A	

Page 5

A

A) File 3 - 178.99

File 1 - ~~47.76~~

131.23 megabytes

B) $47.76 \sim 50$
 $58.32 \sim 60$
 $178.99 \sim 180$
 $110.35 \sim 110$
 $96.75 \sim 100$

110
290
400
520

yes I disagree with his estimate.

C) $\frac{700}{500} = \frac{7}{5}$

280%

$\frac{285}{7} = 40.714$

Sample 1

Ⓐ Temperatures outside Carrie's School

Day	Temperature	
Monday	11°F	
Tuesday	-4°F	$11 - 15 = -4$
Wednesday	-1°F	$-4 + 3 = -1$
Thursday	3°F	$-1 + 4 = 3$

Ⓑ There was a 12°F difference. To do this, I found $11 - (-1) = 12$. 11 was the temp. on Monday, and -1 was the temp. on Wednesday. I added the 1 and the 11 because subtracting by a negative is the same as adding a positive.

Ⓒ $11 + (-4) + (-1) + 3 + x = 2$

5

$9 + x = 2 \div 5$

5×5

$9 \div 9 = 10 - 9$

$x = 1^\circ\text{F on Friday}$



Sample 2

a.

Temperatures Outside
Carrie's School

Day	Temperature	
Monday	11°F	
Tuesday	-4°F	$\rightarrow 11 - 15$
Wednesday	-1°F	$\rightarrow -4 + 3$
Thursday	3°F	$\rightarrow -1 + 4$

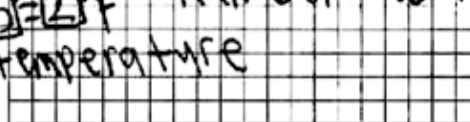
b.

$\rightarrow 11 - (-1) = 12^\circ\text{F} \leftarrow$
Monday Wednesday the difference

c. $11 - 4 = 7 - 1 = 6 + 3 = 9 \div 4 \approx 2$

Friday must have been 1°F

$11 - 4 = 7 - 1 = 6 + 3 = 9 \div 4 = 2.25$ number of days
Friday's temperature



A
D
B
D

A
B
D

C

Sample 1

A. The proportion would be $\frac{4}{3} = \frac{16}{12}$

$$B \quad \frac{4}{3} = \frac{16}{P} \quad 16 \cdot 3 = 4P$$

$$\frac{48}{4} = \frac{4P}{4}$$

$$12 = P$$

There are 12 Pink carnations

C. $\frac{4}{3}, \frac{8}{6}, \frac{12}{9}, \frac{16}{12}, \frac{20}{15}$
There are 15 pink carnations
There are 20 white carnations

Sample 2

a. $P = \frac{W}{4} \times 3$

b. 12. $P = \frac{W}{4} \times 3$; so I plugged in 16 for the W ($P = \frac{16}{4} \times 3$) which equals 12.

c. Pink: 15 White: 20. I found this answer by drawing 35 dashes on my paper, like so:

Then, above the first three dashes, I drew three P's to symbolize the pink carnations. after every 3 P's, I would draw four W's. For example, P P P W W W W P P P W W W W and so on until all the dashes had a letter above them. Then I counted the number of P's to find the number of pink carnations (15) and the number of W's to find the number of white carnations (20).