

# Answers

## for Grade 6 Group Assignments - Quarter #1

### Notes for Parents:

- Answers for group assignment problems that are out of the workbook can be found in the "G6 Workbook Answer Key".
- It is probably best not to give this document to the students, as it might spoil it for them.
- This answer key doesn't include all answers.

### Week 1

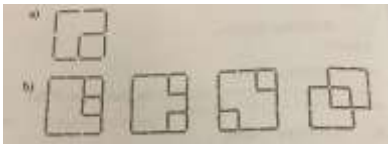
#### Thursday Group Assignment:

- |                                |  |  |                                |
|--------------------------------|--|--|--------------------------------|
| 1. 14 quarters and<br>15 dimes | 3. a) 10 and 3<br>b) 6 and 5<br>c) 15 and 2<br>d) 6 and 5<br>e) 15 and 2 | 4. a) 10 and 6<br>b) 12 and 5<br>c) 20 and 3<br>d) 20 and 3<br>e) 30 and 2 | 5. a) 42 and 5<br>b) 14 and 15 |
|--------------------------------|--|--|--------------------------------|

### Week 2

#### Thursday Group Assignment:

- 1) The Girl has 7 cats and the boy has 5 cats
- 2)

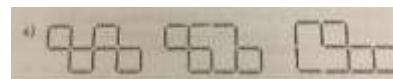


- 2c) You will keep working on this stick puzzle next week.

### Week 3

#### Tuesday Group Assignment:

1. Stick puzzle: Three of the nine solutions are shown on the right.
2. a) 2 and 35 multiply to 70 and add to 37.  
b) 70 and 1 multiply to 70 and subtract to 69.
3. a) 56 and 15 multiply to 840 and add to 71.  
b) 168 and 5 multiply to 840 and subtract to 163.



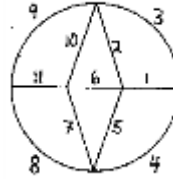
#### Thursday Group Assignment:

- 1,302 divided by 21 = 62  
3,745 divided by 738 = 5 55/738  
45,800 divided by 76 = 602 12/19  
92,538 divided by 274 = 337 100/137

## Week 4

Tuesday Group Assignment:

- a) unit cost is \$0.52 per pound, so 8 pounds cost \$4.16  
b) unit cost is \$2.30 per box, so 7 boxes cost \$16.10
- a) 59  
b) 48 and a half  
c)  $7\frac{7}{10}$   
d)  $9\frac{5}{48}$



Thursday Group Assignment:

- One possible solution is shown here.
- First he brings the chicken across. Then he returns across the bridge empty-handed and brings the fox across. Once he reaches the other side, he leaves the fox, but takes the chicken back across (to the starting point). He leaves the chicken there, and takes the sack of grain across. He leaves the sack of grain with the fox, and then returns empty-handed across. Lastly, he brings the chicken across the bridge.
- 13 quarters

## Week 5

Thursday Group Assignment:

- Four daughters and three sons.
- One possible solution is  $9 - 8 + 76 - 5 + 4 + 3 + 21$ .  
Another solution is  $98 + 7 - 6 + 5 - 4 + 3 - 2 - 1$ .
- Make one vertical cut that cuts the cake into left and right pieces. Make a second vertical cut that is perpendicular to the first cut. Make a third cut horizontally through the middle of the cake. The cake has now been cut into eight pieces.

## Week 6

Tuesday Group Assignment:

- \$17
- 44 marbles
- Unit cost is \$0.35, so 7.6 pounds costs \$2.66.

Thursday Group Assignment:

- Sue is 6 and Jeff is 23.

## Week 7

- $16\frac{3}{4}$  and  $6\frac{1}{4}$
- The pattern is to add the previous two numbers, and then to alternately add and subtract 1. So, you get  $2+3-1=4$ ;  $3+4+1=8$ ;  $4+8-1=11$ ;  $8+11+1=20$ , etc.  
The answer is then 2, 3, 4, 8, 11, 20, 30, 51, 80, 132, 211, 344, 554, 899, 1452...

## Week 8

No answers needed this week.