

Answers

for Grade 6 Group Assignments - Quarter #2

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.

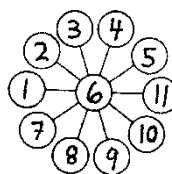
Week 9

1) Making Change: One possible solution is 5 pennies, 13 nickels and 3 dimes.

2) Number Wheel:

There are three possibilities for the middle:
6 is in the middle, with a common sum of 18
(which is shown here).

1 is in the middle, with a common sum of 14.
11 is in the middle, with a common sum of 22.



3) Arithmetic Square:

$$\begin{array}{r} \boxed{15} + \boxed{9} = 24 \\ + \quad + \\ \boxed{20} - \boxed{8} = 12 \\ \text{||} \quad \text{||} \\ 35 \quad 17 \end{array}$$

4) Missing-Digit Arithmetic:

a)

$$\begin{array}{r} 47 \\ \times 52 \\ \hline 94 \\ + 2350 \\ \hline 2444 \end{array}$$

b)

$$\begin{array}{r} 83 \\ \times 54 \\ \hline 332 \\ + 4150 \\ \hline 4482 \end{array}$$

c)

$$\begin{array}{r} 325 \\ \times 47 \\ \hline 2275 \\ + 1300 \\ \hline 15275 \end{array}$$

Week 10

Puzzle:

$$\begin{array}{r} \boxed{5\frac{1}{2}} + \boxed{7\frac{1}{2}} = 13 \\ + \quad + \\ \boxed{8\frac{1}{2}} - \boxed{2\frac{1}{2}} = 6 \\ \text{||} \quad \text{||} \\ 14 \quad 10 \end{array}$$

Week 11

- 1) The number of nines tells us how many digits will be under the repeat bar. The number of zeroes tells us how many zeroes will be between the decimal point and the digits that repeat.
- 2) 5, 8, and 9 or 6, 6, and 10
- 3) The most is 25 apples left. You must give out 3 apples at each of the first 10 villages, which leaves your first bag empty (which you can then leave behind). You then have two bags left. So, you give 2 apples at each of the next 15 villages, emptying your second bag. You then have one bag of apples left and only 5 villages to go, which means you must give out 5 apples from the last bag, leaving you with 25 apples at the end.

Week 12

Individual work:

- a) $3\frac{1}{2}$ inches b) $2\frac{1}{4}$ inches c) $4\frac{1}{8}$ inches d) $1\frac{3}{8}$ inches e) $2\frac{5}{8}$ inches f) $1\frac{3}{4}$ inches
g) $2\frac{7}{8}$ inches h) $\frac{3}{16}$ inches i) $\frac{7}{16}$ inches j) $\frac{13}{16}$ inches.

Tuesday Group Work:

- 1) 0.278
- 2) $0.\overline{278}$
- 3) $0.0\overline{278}$
- 4) $0.0\overline{278}$
- 5) $0.000\overline{47}$
- 6) $0.000\overline{47}$
- 7) $0.000\overline{47}$
- 8) $0.00000\overline{05}$
- 9) $\frac{71}{10,000}$
- 10) $\frac{71}{99}$
- 11) $\frac{71}{999}$
- 12) $\frac{71}{990}$
- 13) $\frac{71}{999000}$
- 14) $\frac{4}{999}$
- 15) $\frac{4}{900}$
- 16) $\frac{28}{9999000}$

Tuesday Group Work:

- 17) 59° F
- 18) 107.6° F
- 19) 25° C
- 20) 5.56° C or $5\frac{5}{9}$ C

Puzzle: Ben has 8 and Keith has 16 cards

Week 13

1. $\frac{233}{3300}$
2. $\frac{419}{990}$
3. $\frac{11}{54}$
4. $\frac{5}{12}$

Week 14

- 1) $\frac{65625}{90000}$ which reduces to $\frac{35}{48}$
- 2) 310 C
- 3) 66.2 F
- 4) $\frac{210375}{9999000}$ which reduces to $\frac{17}{808}$
- 5) 30' 2½" by 14' 7"
- 6) All 8 legs add to 10' 6", so she needs a 12-foot long board.

Week 15

- 1) 51, 87, 117
- 2) 119
- 3) 583
- 4) 23, 41, 83, 127,
- 5) factors:
23: 1, 23
41: 1, 41
51: 1, 3, 17, 51
83: 1, 83
87: 1, 3, 29, 87
95: 1, 5, 19, 95
117: 1, 3, 9, 13, 39, 117
119: 1, 7, 17, 119
127: 1, 127
583: 1, 11, 53, 583

6) 8800 7) 0.088 8) 6.4 9) 6400 10) 8600 11) 0.0086 12) 7000 13) 0.047 14) 3,000,000

Week 16

for Tuesday:

- 1) 149
- 2) factors:
700: 1, 2, 4, 5, 7, 10, 14, 20, 25, 28, 35, 50, 70, 100, 140, 175, 350, 700
149: 1, 149
343: 1, 7, 49, 343
165: 1, 3, 5, 11, 15, 33, 55, 165
219: 1, 3, 73, 219
221: 1, 13, 17, 221
315: 1, 3, 5, 7, 9, 15, 21, 35, 45, 63, 105, 315

3)
$$\begin{array}{r} 348 \\ + 805 \\ \hline 1153 \end{array}$$

4)
$$\begin{array}{r} 83 \\ \times 57 \\ \hline 581 \\ + 4150 \\ \hline 4731 \end{array}$$

for Thursday:

- 1) 0.73
- 2) 730,000
- 3) 280
- 4) 1300
- 5) 0.7
- 6) 0.000007
- 7) 0.03
- 8) 30,000
- 9) 4000
- 10) Jeff is 11 years old.
- 11) 14 years from now.
- 12) \$12.47