0515 Grade 6 Math Roy

(Self-Study/ Homework)

Answer Key to Exercises

Go Math!

Lesson 6.4

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5.) 25/45, 12/45

6.) 7/42, 8/42

7.) 15/42, 8/42

8.) 21/36, 10/36

9.) 40

10.) 3 or 15

11.) 7, 21, or 42

14.) 60

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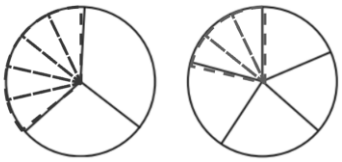
15.)

a.) I am given how many slices are already cut into each pie.

b.) I am asked how many slices the pie will be cut into so they both have the same number of slices.

c.) No. One pie is cut into thirds and other one into fifths so she has to cut the first pie more times than the second.

d.)



e.) 15

fifths

thirds

1/15

16.) A and D

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1.) 10	2/10, 5/10	4.) 15	9/15, 5/15
2.) 12	3/12, 8/12	5.) 8	4/8, 3/8
3.) 18	15/18, 6/18	6.) 12	2/12, 3/12

7.) 15/18, 4/18

8.) 2/24, 9/24

9.) 25/45, 6/45

10.) 6

11.) Possible answer: 6/8 and 4/8

12.) First, I will identify the least common denominator. Using the multiples of the denominators, I know it's 12. Next, I need to get the equivalent fraction of each fraction. I have to multiply the denominator to a factor so that the product is equal to the least common denominator, then I will use the same factor with the numerator as well. The equivalent fractions will be 2/12 and 3/12.

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1.) 27/30 and 25/30

2.) Possible Answer:15/24 and 8/24

3.) >

4.) 63 bottle caps

5.) 1.134

6.) 13

Lesson 6.5

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Unlock the Problem

One Way

Find a common denominator by multiplying the denominators.

$4 \times 8 =$ 32 ← common denominator

Use the common denominator to write equivalent fractions with like denominators. Then add, and write your answer in simplest form.

$$\frac{1}{4} = \frac{1 \times 8}{4 \times 8} = \frac{8}{32}$$

$$+\frac{3}{8} = +\frac{3 \times 4}{8 \times 4} = +\frac{12}{32}$$

$$\frac{20}{32} = \frac{5}{8}$$

So, Malia bought $\frac{5}{8}$ pound of beads.

Another Way

Find the least common denominator.

The least common denominator of $\frac{1}{4}$ and $\frac{3}{8}$ is 8.

$$\frac{1}{4} = \frac{1 \times 2}{4 \times 2} = \frac{2}{8}$$

$$+\frac{3}{8} \quad + \frac{3}{8}$$

$$\frac{5}{8}$$

1. I can estimate the sum. 0 + ½= ½. Since 5/8 is close to the estimate, ½, the answer is reasonable.

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Subtract. $\frac{9}{10} - \frac{2}{5}$ **Write your answer in simplest form.**

$$\frac{9}{10} = \frac{9}{10}$$
$$-\frac{2}{5} = -\frac{2 \times 2}{5 \times 2} = -\frac{4}{10}$$
$$\frac{5}{10} = \frac{1}{2}$$

Describe the steps you took to solve the problem.

First, I found a common denominator and used it to write equivalent fractions with like denominators. Then I subtracted the fractions and simplified.

2. I can estimate the difference. 1 - ½ = ½. Since the difference is equal to the estimate, ½, the answer is reasonable.

Share and Show

1.) 3/4
2.) 29/35
3.) 11/12
4.) 5/8
5.) 3/28
6.) 13/20

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7.) 5/9
8.) 14/15
9.) 7/15
10.) 17/18
11.) 1/8
12.) 1/21
13.) 5/18
14.) 9/20
15.) 7/10
16.) 1/12
17.) 11/15
18.) 27/45, or 9/15, or 3/5
19.) 1/8 cup

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20.) 7/12
21.) Jamie's claim is reasonable. I know Jamie's claim is reasonable

because I can estimate 4/5 – 1/2 as 1 – 1/2 = 1/2 and since 3/10 is close to the estimate, the answer is reasonable.

22.)

$$\frac{7}{9} = \frac{7 \times \_\_\_}{9 \times \_\_\_} = \frac{7}{\_\_\_} \qquad \frac{1}{3} = \frac{1 \times \_\_\_}{3 \times \_\_\_} = \frac{3}{\_\_\_}$$

1 1/9 yards. To find the total amount of wire used, I added 7/9 and 3/9. The sum is 10/9. Then I rewrote the sum to the mixed number 1 1/9.

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1.) 5/14
2.) 1/5
3.) 2/3
4.) 1 1/40
5.) 17/30
6.) 7/20
7.) 13/28
8.) 1 5/24
9.) 1 7/30
10.) 1 31/40 cups
11.) 13/20 pound
12.) In ½ + ¼, the least common denominator is already the denominator of one of the addends, while with ½ + ⅓, both addends have to be rewritten to equivalent fractions.

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1.) 19/24 pound
2.) 5/8 foot
3.) 9 yards
4.) $19
5.) Possible estimate: $1.50
6.) 14 2/3 ounces
7.) $90

Mid-Chapter Checkpoint Answer Key

1.) common multiple
2.) common denominator
3.) 1 1/2
4.) 3
5.) 4
6.) 54 9/54, 6/54
7.) 40 15/40, 12/40
8.) 36 4/36, 15/36
9.) 10 4/10, 1/10
10.) 24 20/24, 9/24
11.) 21 7/21, 6/21
12.) 4/9
13.) 24/35
14.) 9/20
15.) 1/4
16.) 1/8
17.) 19/24 gallon

Homework

Study for an online mid-chapter test.

(available from May 16 to 26).

- Coverage: Lessons 6.1 to 6.5
- Try to answer first the online review exercises for lessons 6.1 to 6.5 before you answer the mid-chapter test.

Completed by May 22nd

Go Math!

- p. 385, numbers 8 to 21.
- p. 387, numbers 1 to 8.
- p. 388, numbers 1 to 6.

Completed by May 25th

Go Math!

- p. 391, numbers 3 to 13.
- p. 393, numbers 1 to 6.
- p. 394, numbers 1 to 6.