Proportions Assignment

Part 1: Draw a ⭐ if the given proportion is true and a ♡ if false.

1. 13:26 = 26:52

2. 100:75 = 25:3

3. 6:8 = 75:100

4. 16:20 = 36:45

5. 49:70 = 10:7

Part 2: Solve for the unknown.

1. a:6 = 2:5

2. 5:2 = b:4

3. 15:21 = 20:c

4. 108:d = 18:7

5. 40:2 = e:5

Proportions Assignment

6. $f:126 = 3:14$

7. $1050:60 = 350:g$

Part 3: Solve the proportion to find the answer.

1. In one publishing office, there are 5 printers for 20 computers. Another publishing office has 16 printers for 64 computers. Is the ratio of printers to computers of the two publishing offices proportional?

2. In a football league, the ratio of male to female is 4:3. If there are 48 female players, how many are males?

3. 6 liters of water for every 8 lemons is needed to make lemonade. How many liters of water is needed for 80 lemons?

Proportions Assignment

Answers:

Part 1: Draw a ⭐ if the given proportion is true and a ❤ if false.

1. 13:26 = 26:52

2. 100:75 = 25:3

3. 6:8 = 75:100

4. 16:20 = 36:45

5. 49:70 = 10:7

⭐

❤

⭐

⭐

❤

Part 2: Solve for the unknown.

1. a:6 = 2:5

   Solution: a = 2.4

2. 5:2 = b:4

   Solution: b = 10

3. 15:21 = 20:c

   Solution: c = 28

Proportions Assignment

4. 108:d = 18:7

   Solution: d = 42

5. 40:2 = e:5

   Solution: e = 100

6. f:126 = 3:14

   Solution: f =117

7. 1050:60 = 350:g

   Solution: g = 20

Part 3: Solve the proportion to find the answer.

1. In one publishing office, there are 5 printers for 20 computers. Another publishing office has 16 printers for 64 computers. Is the ratio of printers to computers of the two publishing offices proportional?

   Solution:

   5:20 = 16:64 → (5)(64) = (20)(16) → 320 = 320, YES!

Proportions Assignment

2. In a football league, the ratio of male to female is 4:3. If there are 48 female players, how many are males?

Solution:

4:3 = x:48

x = 64 males

3. 6 liters of water for every 8 lemons is needed to make lemonade. How many liters of water is needed for 80 lemons?

Solution:

6:8 = x:80

x = 60 liters of water