**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
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?

**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

1. 5:2 = b:4

Solution: b = 10

1. 15:21 = 20:c

Solution: c = 28

1. 108:d = 18:7

Solution: d = 42

1. 40:2 = e:5

Solution: e = 100

1. f:126 = 3:14

Solution: f =117

1. 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!

1. 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

1. 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