Ratios - Worksheet Answers

Answer 1

Reduce the following ratios:

No.	Ratios	Answer
1	35:25	7:5
2	105:25	21:5
3	12:6	2:1
4	18:54	1:3
5	27:81	1:3

Answer 2

Change the ratios into fraction format:

No.	Ratios	Answer
1	35:25	7/5
2	105:25	21/5
3	3:18	1/6
4	12:96	1/8
5	27:81	1/3

Answer 3

Kylie's desired green to red sticker ratio = 5:15 or 1:3 (reduced)

First pack, green stickers: red stickers = 20:45

If it's reduced, green: red = 4:9

Second pack, green stickers: red stickers = 9:27

If it's reduced, green: red = 1:3, which is equivalent to the desired ratio.

So, Kylie should buy the **second pack**.

Answer 4

Number of friends living in Melbourne = 3

Number of friends living in Perth = 2

So, the ratio of friends from Melbourne to friends from Perth = **3:2.**

Answer 5

Desired ratio: glucose water; regular water = 2:3

Now, in the mixture, 2:3 = G: 450 (considering 'G' as the amount of glucose water in the solution)

$$\frac{2}{3} = \frac{G}{450}$$

$$\frac{2}{3} \times 450 = \frac{G}{450} \times 450$$

$$G = 2 \times 150$$

$$G = 300$$

So, the mixture should have **300mls** of glucose water.

Answer 6

Desired ratio: milk; sugar = 1:4

Now, in the mixture, 1:4= 3: S (considering 'S' as the amount of sugar that needs to go in total)

$$\frac{1}{4} = \frac{3}{S}$$

$$\frac{1}{4} \times S = 3$$

$$\frac{S}{4} \times 4 = 3 \times 4$$

$$S = 12$$

So, the rice pudding should have 12 tablespoons of sugar.

Alice has already put in 5 tablespoons. So, she needs to *add* **7 tablespoons** of sugar.