

FRIDAY – RPS Level 1

4a. The number of adults (a) needed to oversee an Early Years trip is calculated as six children (c) to each adult.

Expressed as the formula:

$$a = 6c$$

If there are 5 adults, how many children can go on the trip?

$$a=4c$$

4b. The number of clean towels (t) needed by a hotel is calculated as 3 per guest (g).

Expressed as the formula:

$$g = 3t$$

If there are 20 guests, how many clean towels will be needed?

$$g=60t$$

2a. Here is a formula for the amount of flour (f) needed to bake brownies.

$$f = c \times 2$$

Hamish has 2 bars of chocolate (c) and 3 bags of flour.

Does Hamish have enough flour? Convince me.

no because $c \times 2 = 4$ and he has three bags of flour



R

2b. Here is a formula for the number of tulips (t) planted for every rose (r).

$$r = 3t$$

Maud plants 2 roses; she has planted 5 tulips.

Has she planted enough tulips? Convince me.

Maud has not planted enough tulips $1=3$ so $2=6$ because $1 \times 3 = 3$ and $2 \times 3 = 6$



R

3a. Cleaning fluid (c) is made up of 5 cups of water (w) and 2 cups of bleach (b).

Which formula represents this?

A. $c = 5w + 2b$

B. $c = 5 + w + 2 + b$

Explain how you know.



B is incorrect because it is saying $5 + \text{water} + 2 + \text{bleach}$

3b. Tomato feed (t) is made up of 6 cups of water (w) and 1 cup of plant food (p).

Which formula represents this?

A. $t = 1w + 6p$

B. $t = 6w + 1p$

Explain how you know.



A is incorrect because it's saying one cup of water when it's supposed to be six cups of water