

Problem solving - Converting Units

Remember that approximately:

$$2\text{lb (pounds)} = 1\text{kg}$$

$$1\text{lb} = 0.5\text{kg}$$



1) You get approximately 4 apples or 4 bananas in one pound (1lb)

So roughly how much would **6 bananas and 4 apples** weigh altogether in kilos?

$$4 \text{ apples} = 1\text{lb}$$

$$2 \text{ bananas} = 0.5\text{lb}$$

$$4 \text{ bananas} = 1 \text{ lb}$$

$$\text{TOTAL: } 2.5\text{lb}$$

$$2\text{lb} = 1\text{kg} \quad 0.5\text{lb} = 0.25\text{kg} \quad = 1.25\text{kg} \quad \text{or } 2.5 \times \frac{1}{2} = 1.25\text{kg}$$

2) You get approximately 6 mangoes in 1kg.

So roughly how much would **30 mangoes** weigh in lb?

$$6 \text{ mangoes} = 1\text{kg}$$

$$30 = 6 \times 5 = 5\text{kg}$$

$$5\text{kg} \times 2 = 10\text{lb}$$

3) You get approximately 6 oranges in 1lb.

Roughly how much would 27 oranges weigh in kg?

$$6 \text{ oranges} = 1\text{lb} \quad 24 \text{ oranges} = 4\text{lb} (6 \times 4) \quad 3 \text{ oranges} = 0.5\text{lb}$$

$$\text{TOTAL} = 4.5\text{lb}$$

$$4\text{lb} = 2\text{kg} \quad 0.5\text{lb} = 0.25\text{kg} \quad = 2.25\text{kg}$$