

Direct Proportionality - Unitary Method



1. I buy 3 identical pens from the school shop and the total cost is 84p. What would be the total price for 5 of these pens?
2. If Sally starts work weekend job at a fashion clothing shop. Sally's pay is directly proportional to the number of hours she works. On the first Saturday at work, Sally works 4 hours and receives £20 pay. The next Saturday, Sally works for 7 hours at the shop. What will be Sally's pay?
3. On a packet of cornflakes, it says that 100 grams provides 360 calories of energy. How much energy is provided by 55 grams of these cornflakes?
4. A car travelling at a steady speed travels 24.5 miles on 2.5 litres of petrol. For the same conditions, how far will this car travel on 12.5 litres of petrol?
5. A train travelling at a constant speed travels 45 miles in 0.4 hours. If the train continues to travel at the same constant speed, what distance will it have covered in 1.3 hours?