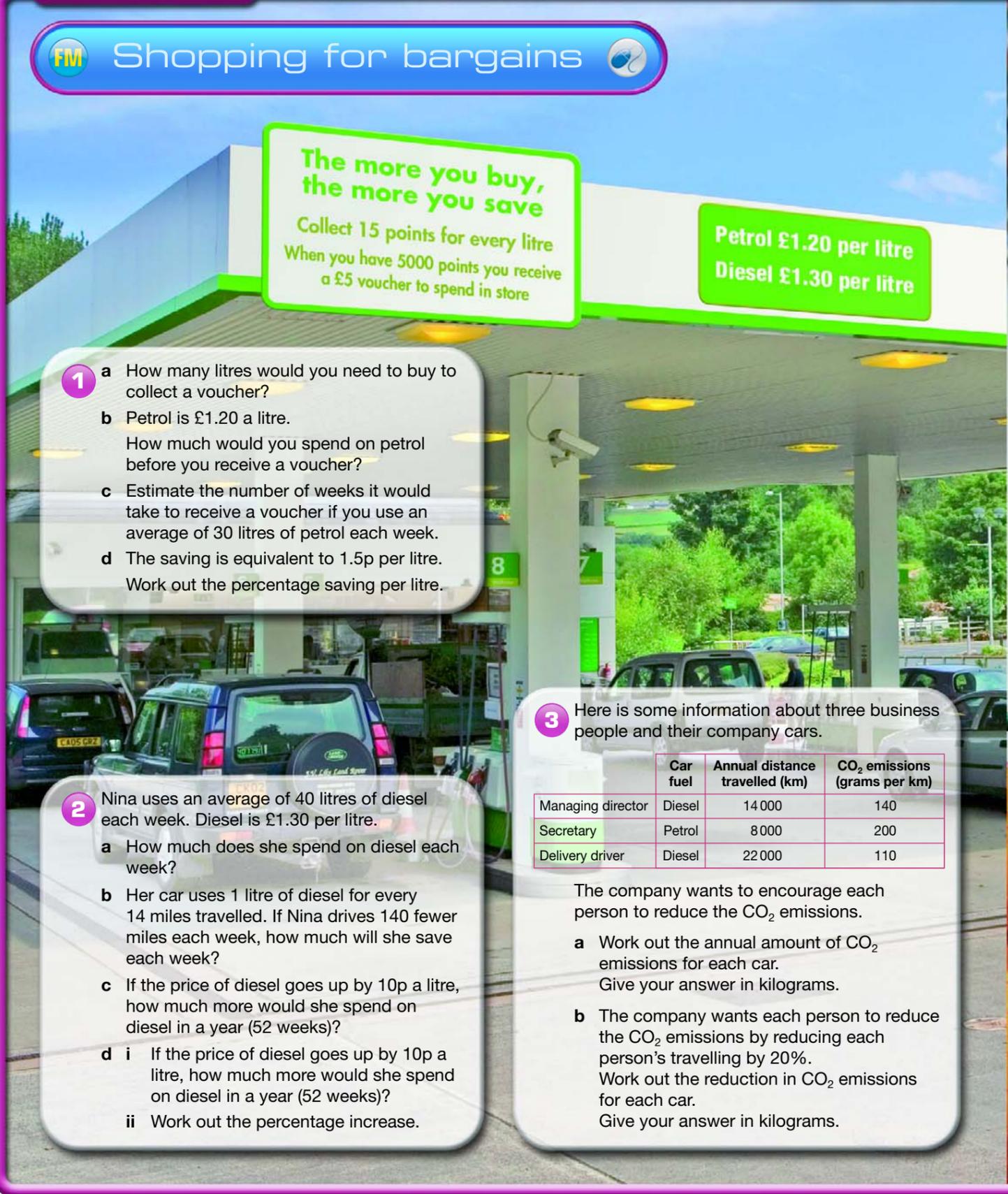


FM Shopping for bargains



- 1**
- a How many litres would you need to buy to collect a voucher?
 - b Petrol is £1.20 a litre. How much would you spend on petrol before you receive a voucher?
 - c Estimate the number of weeks it would take to receive a voucher if you use an average of 30 litres of petrol each week.
 - d The saving is equivalent to 1.5p per litre. Work out the percentage saving per litre.

- 2** Nina uses an average of 40 litres of diesel each week. Diesel is £1.30 per litre.
- a How much does she spend on diesel each week?
 - b Her car uses 1 litre of diesel for every 14 miles travelled. If Nina drives 140 fewer miles each week, how much will she save each week?
 - c If the price of diesel goes up by 10p a litre, how much more would she spend on diesel in a year (52 weeks)?
 - d i If the price of diesel goes up by 10p a litre, how much more would she spend on diesel in a year (52 weeks)?
 - ii Work out the percentage increase.

3 Here is some information about three business people and their company cars.

	Car fuel	Annual distance travelled (km)	CO ₂ emissions (grams per km)
Managing director	Diesel	14 000	140
Secretary	Petrol	8 000	200
Delivery driver	Diesel	22 000	110

- The company wants to encourage each person to reduce the CO₂ emissions.
- a Work out the annual amount of CO₂ emissions for each car. Give your answer in kilograms.
 - b The company wants each person to reduce the CO₂ emissions by reducing each person's travelling by 20%. Work out the reduction in CO₂ emissions for each car. Give your answer in kilograms.

Chocolate
Only £1 Was £1.19

Almost Butter
Buy one get one free £1.38

Cheese
Save £1 was £3.25

Grillsteaks
520g Half price
Was £2.99 Now £1.49

Luxury Crisps
2 for £2.50 £1.49 each

Mint sauce
3 for £2 Normally 85p each

Milk
2 for £2 or £1.25 each

Scotch eggs
Were £1.15 Save 20% Now 92p

Baby shampoo
Save $\frac{1}{3}$ Was £2.47 Now £1.64

Yoghurts
48p each Buy 3 get 3 free



- 4** You have £20 to spend but you have to buy, bread, coffee, baked beans and orange juice.
- a How much do these four items cost altogether?
 - b How much does this leave you to spend on other items?
 - c Using the offers, make **two** different shopping lists of items you could now afford to buy. Try to spend as close to £20 altogether as possible. (*Hint: You can buy single items but then you would not get the offer price.*)

- 5** You decide to take up all the offers shown.
- a How much will you save on each offer compared with the full price?
 - b How much will you save altogether?

- 6** The shopping can be ordered on the Internet and delivered to your home. The delivery charge is £4.50. The journey to the supermarket and back is 8 miles altogether. It costs 60p per mile to run your car. Explain the advantages and disadvantages of having the shopping delivered.

Answers