

Formulae - Review



Exercise A - A car hire firm's price is a fixed amount of £100 and then £20 a day. Here is the cost as a formula:

$$C = 100 + 20d$$

C = cost

d = number of days

a. Use the formula to find the hire cost for:

i. 3 days

ii. 5 days

iii. 7 days

b. Use the formula to help find the number of days hired when the cost is:

i. £140

ii. £300

Exercise B - Here are the formulae used by two car hire firms:

Kim's Cars

$$C = 100 + 20d$$

Ali's Autos

$$C = 20 + 40d$$

a. What would be the cost of hiring a car for 5 days from Kim's Cars?

b. What would be the cost of hiring a car for 3 days from Ali's Autos?

c. Which of the two firms, Kim's or Ali's, is the cheapest way to hire a car?

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Exercise A - A car hire firm's price is a fixed amount of £100 and then £20 a day. Here is the cost as a formula:

$$C = 100 + 20d$$

C = cost

d = number of days

a. Use the formula to find the hire cost for:

i. 3 days

£160

ii. 5 days

£200

iii. 7 days

£240

b. Use the formula to help find the number of days hired when the cost is:

i. £140 2 days

ii. £300 10 days

Exercise B - Here are the formulae used by two car hire firms:

Kin's Cars

$$C = 100 + 20d$$

Ali's Autos

$$C = 20 + 40d$$

a. What would be the cost of hiring a car for 5 days from Kim's Cars?

£200

b. What would be the cost of hiring a car for 3 days from Ali's Autos?

£140

c. Which of the two firms, Kim's or Ali's, is the cheapest way to hire a car?

The cost is the same for 4 days. For a hire time of more than 4 days, Kim's Cars is cheapest and a hire time of less than 4 days, Ali's Autos is cheapest.