

7. Alice buys two different magazines called *Goodbye* and *Welcome*. The *Goodbye* magazine costs £3 per copy and *Welcome* costs £4 per copy.

Over the past year Alice bought x copies of *Goodbye*.

- (a) Write down, in terms of x , the total cost (in pounds) of these copies.

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[1]

- (b) Alice bought 5 more copies of *Welcome* than she bought of *Goodbye*. Write down, in terms of x , how many copies of *Welcome* she bought.

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[1]

- (c) Write down, in terms of x , the total cost (in pounds) of these copies of *Welcome* magazine.

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[1]

- (d) Write down, in terms of x , the total cost (in pounds) of all the magazines Alice bought. You must simplify your answer as far as possible.

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[3]

7. Crayons are sold by a shop in two different sized boxes. Small boxes contain 4 crayons and large boxes contain 12 crayons.

The shopkeeper has x small boxes each containing 4 crayons.

- (a) Write down, in terms of x , the total number of crayons in these boxes.

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[1]

- (b) The shopkeeper has 7 more of the large boxes than he has of the small boxes. Write down, in terms of x , the number of large boxes he has.

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[1]

- (c) Write down, in terms of x , the total number of crayons in the large boxes.

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[1]

- (d) Write down, in terms of x , the total number of crayons altogether. You must simplify your answer as far as possible.

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[3]

6. Plates are sold in two different sized boxes, small and large. The small boxes each contain 6 plates and the large boxes each contain 9 plates.

Richard has x small boxes each containing 6 plates.

- (a) Write down, in terms of x , the total number of plates there are in these boxes.

[1]

- (b) Richard has 7 more of the large boxes than he has of the small boxes.
Write down, in terms of x , the number of large boxes he has.

[1]

- (c) Write down, in terms of x , the total number of plates in the large boxes.

[1]

- (d) Write down, in terms of x , the total number of plates altogether. You must simplify your answer as far as possible.



[3]

3. Toby travels to work by train. He buys either a £5 return ticket or a £3 single ticket.

Over the past few months he bought x return tickets.

(a) Write down, in terms of x , the total cost (in pounds) of these return tickets.

[1]

(b) The number of single tickets he bought was 9 more than the number of return tickets he bought. Write down, in terms of x , how many single tickets Toby bought.

[1]

(c) Write down, in terms of x , the total cost (in pounds) of these single tickets.

[1]

(d) Write down, in terms of x , the total cost (in pounds) of all the tickets Toby has bought. You must simplify your answer as far as possible.

[3]

3. Arwyn can buy plants on small trays each of which holds 4 plants and on large trays each of which holds 12 plants.

He buys x small trays.

- (a) Write down, in terms of x , the total number of plants on these small trays.

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[1]

- (b) He buys 6 less of the large trays than the small trays. Write down, in terms of x , how many large trays he has bought.

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[1]

- (c) Write down, in terms of x , the total number of plants on these large trays.

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[1]

- (d) Write down, in terms of x , the total number of plants he has bought altogether.
You must simplify your answer as far as possible.

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[3]