Algebra 1

Exercise A

Find the expression that I am left with.

1 I start with n and then double it.

2 I start with y and then add 4.

3 I start with x and then take away 7.

4 I start with x and then add 100.

5 I start with y and then multiply by 5.

6 I start with s and multiply by 100.

7 I start with t and then treble it.

8 I start with z and then add 11.

9 I start with p and then take away 9.

10 I start with n and then add x.

11 I start with n and then multiply by 4.

12 I start with x, double it and then add 3.

13 I start with n, double it and then take away 12.

14 I start with m, treble it and then add 2.

15 I start with y and multiply by 20.

16 I start with x, treble it and then add 3.

17 I start with y, double it and then take away 7.

18 I start with k, treble it and then add 10.

Exercise B

Find the expression that I am left with.

1 I start with x, add 4 and then multiply the result by 3.

2 I start with x, add 3 and then multiply the result by 5.

3 I start with y, add 11 and then multiply the result by 6.

4 I start with x, add 3 and then divide the result by 4.

5 I start with x, subtract 7 and then divide the result by 3.

6 I start with y, subtract 8 and then divide the result by 5.

7 I start with $4a$, add 3, multiply the result by 2 and then divide the final result by 4.

8 I start with m, subtract 6, multiply the result by 3 and the divide the final result by 4.

9 I start with x, square it and then subtract 6.

10 I start with x, square it, add 3 and then divide the result by 4.

11 I start with n, add 2 and then square the result.

12 I start with w, subtract x and then square the result.

13 I start with x, square it, subtract 7 and then divide the result by 3.

14 I start with x, subtract 9, square the result and then add 10.

15 I start with y, add 7, square the result and then divide by x.

16 I start with a, subtract x, cube the result and then divide by y.

17 A piece of wood is l cm long. If I cut off a piece 3 cm long, how much wood remains?

18 A piece of string is 15 cm long. How much remains after I cut off a piece of length x cm?

19 A delivery van weighs l kg. At a depot it picks up goods weighing 200 kg and later delivers goods weighing m kg. How much does it weigh after making the delivery?

20 A box usually contains n cookies. The shopkeeper puts an extra 2 cookies into each box. A girl buys 4 boxes. How many cookies does she have?

21 A brick weighs w kg. How much do six bricks weigh?

22 A sack weighs l kg. How much do x sacks weigh?

23 A man shares a sum of n pence equally between six children. How much does each child receive?

24 A sum of £p is shared equally between you and four others. How much does each person receive?

25 A cake weighing 12 kg is cut into n equal pieces. How much does each piece weigh?