1	(-4a+13)(15a+8)	16	(5a+16)(11a+15)(9a+20)
2	(-2b+20)(4b+5)	17	(13b+17)(10b+7)(4b+11)
3	(12c+7)(-5c+8)	18	(8c+18)(11c+20)(8c+11)
4	(-7d+15)(10d+15)	19	(3d+20)(10d+0)(10d+14)
5	(7e+10)(-8e+0)	20	(8e+9)(9e+8)(10e+14)
6	(12f+7)(2f+3)	21	(5f+6)(2f+3)(15f+0)
7	(-7g+16)(-3g+16)	22	(8g+9)(8g+2)(3g+20)
8	(7h+7)(8h+9)	23	(12h+0)(13h+16)(14h+14)
9	(-4i+7)(2i+17)	24	(15j+3)(12j+9)(5j+9)
10	(-4j+3)(8j+3)	25	(11k+11)(6k+17)(6k+19)
11	(1k+8)(-4k+5)	26	(8m+0)(3m+8)(5m+3)
12	(-5m+6)(13m+13)	27	(10n+12)(5n+19)(10n+15)
13	(-8n+7)(-6n+10)	28	(12p+9)(12p+3)(14p+17)
14	(11p+7)(13p+15)	29	(6q+3)(2q+3)(3q+2)
15	(2q+7)(11q+0)	30	(2r+13)(9r+8)(8r+14)

Application



- A For the cuboid above, find expressions for:
 - i) the total length of the edges;
 - ii) the surface area;
 - iii) the volume of the cuboid.
- B If k=9 and the lengths are given in cm. The cuboid weighs 2714.924 kg. Calculate the density of the cuboid. (Hint: Weight = density × Volume)
- C Below is listed the density of several metals. Of which of the metals listed below is the cuboid made?

Material	Density	
Gold	19.32 gcm ⁻³	
Platinum	21.45 gcm ⁻³	
Rhenium	21.04 gcm ⁻³	
Silver	10.5 gcm ⁻³	
Steel	7.8 gcm ⁻³	
Tungsten	19.35 gcm ⁻³	

- D If the cuboid had been made from Steel and the value of k=6:
 - i) How much lighter would the cuboid have weighed?
 - ii) Give the weight of the steel cuboid as a percentage of the original cuboid.