Starter

1. Round the following to 2 s.f.
   a. 452874 b. 7.4826 c. 0.008025

2. Multiply out the brackets and simplify
   a. $10 + 4(3x + 2) - 2(2x + 1)$ b. $9s(s + 4) + 5 - 7(s^2 - 2s)$

3. The number of children allowed to visit Santa's Grotto is dependant on the number of elves on duty, as described in this table:

Elves	2	3	4
Children	10	14	18

   a. Create an equation to represent the situation
   b. If there are 9 elves available, how many children will be allowed in?
   c. If 58 children turn up, how many elves will be needed?

4. The sum of three consecutive integers is 90. Find them.

Starter

1. Round the following to 3 s.f.
   a. 65.845 b. 1059800 c. 0.30980

2. If Santa travels on a bearing of 240° from the North Pole to Susie's house, what bearing should he tell Rudolph to take in order to get home?

3. Multiply out the brackets and simplify
   a. $-5(k + 2) - 3(2k + 1) + 6$ b. $10 - (5 - x) + 2(2x + 3) - 3x$

4. David, John and Chris are all coming home to visit their parents for Christmas.
   David has to travel twice as far as Chris, whilst John has to drive 50 miles further than Chris. If the boys have to travel a total distance of 350 miles, how far does Chris have to come?

Starter

1. Convert the following
   a. 585 mm to cm b. 19.8 km to m c. 0.005 m to mm

2. Find
   a. $4\frac{3}{8} - 2\frac{1}{6}$ b. $1\frac{2}{3} \div \frac{3}{4}$

3. On Christmas Eve, Rebecca, Julie, and Kimberley counted the presents under their tree. Julie had 3 more than Rebecca, whilst Kimberley had one less than Rebecca. Altogether, there were 20 presents.
   How many presents did Rebecca have?

4. One of the presents under the girls' tree was a cuboid, with dimensions of 45 cm by 20 cm by 27.5 cm.
   What was its volume?

Starter

1. Convert the following
   a. 1.05 m to mm b. 2078 m to km c. 507 cm to m

2. In January 2014, the price of a yearly train ticket from Clarkston to Glasgow Central was £780. In January 2015, it will increase by 4%. What will be the new price?

3. The volume of this cuboid-shaped present is 3780 cm^3. If its length is 12 cm and breadth 15 cm, will it fit through a letterbox which is 20 cm high?

4. Kate sent x number of Christmas cards this year. Her sister Louise sent 20 more than Kate, their friend Jane sent 18 less than Kate, and another friend Sophie sent twice as many Jane. In total, the girls sent 191 cards. How many did Sophie send?

Starter

1. In the Boxing Day sales, a jumper which cost £28.60 is expected to be reduced in price by 25%. What will the sale price be?

2. Solve
   a. $3a - 9(a - 1) = a + 5$ b. $10 - 11(2 - e) - 3(e + 4) = 5e$

3. A roll of ribbon is 15.5 m long. If James uses $^3/_4$ m to wrap each of his presents, how many presents will he be able to wrap?

4. The Morgan family were planning on throwing a Hogmanay party for 100 people. Mr and Mrs Morgan invited x people each, their daughter Sally invited 10 more than her mum and dad, and their son Jake invited twice as many as his parents.
   How many people did Mrs Morgan invite?