Starter

1. Find

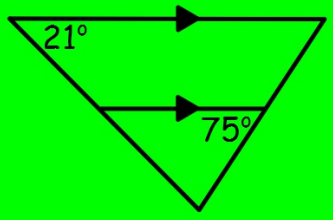
   a. 15% of £60 b. 32% of 150 g

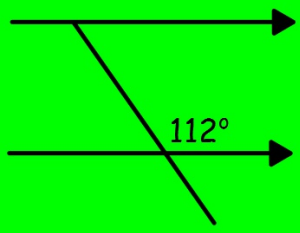
2. Express 180 as a product of prime factors.

3. Multiply out the brackets and simplify

   a. 8(3a + 4) - 5 b. 10(x - 3) + 4(2x + 1)

4. Fill in the missing angles

   a. 

   b. 

Starter

1. Find

   a. 45% of 1600 pupils b. 17.5% of £250

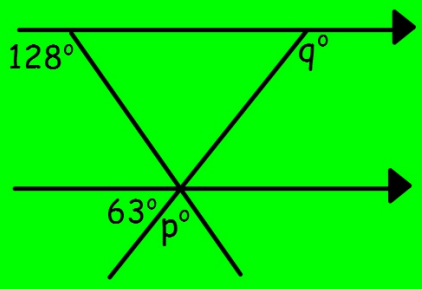
2. Multiply out the brackets and simplify

   a. 12 + 4(3x - 6) b. 8x - 2(7x - 9)

3. Calculate

   a. 52 x 0.7 b. 280 ÷ 700 c. 0.9 x 430

4. Find angles p and q



Starter

1. Find

   a. $^{8}/_{9}$ of 180 sweets b. 12.5% of £864

2. Round to 3 s.f.

   a. 5247 b. 0.3849 c. 0.001959

3. Multiply out the brackets and simplify

   a. $4(2x - 7) - 6$ b. $10 - 5(x + 5) - (2x - 1)$

4. If $p = 5$, $q = 3$, and $r = (-3)$, find

   a. $pr - 3q$ b. $2r + (p - q)^2$ c. $p^2q - r$

Starter

1. Round to 2 s.f.

   a. 9068 b. 0.09254 c. 0.198

2. Multiply out the brackets and simplify

   a. $4(4x - 5) + 2x - 4$ b. $1 + (x - 4) - 2(5x + 10)$

3. If a = (-2), b = 3, and c = 9, find

   a. $2ab - c^2$ b. $(a - b)^2 - c$ c. $abc + a^2$

4. A pet snake was measured at 140 mm.
   Over the next 6 months, it grew by 35%.
   How long is it now?

Starter

1. Express 220 as a product of prime factors.

2. If r = (-1), s = (-4), and t = 4, find

   a. $rt^2 - 4s$ b. $r^3s + 2t$ c. $2(r + s)^2 - t$

3. Last year, it was reported that snow fell on 4% of the days. Taking the number of days in 2013 as 365, on how many days did it snow (to the nearest whole number)?

4. (i) Find an expression for the area of this shape
   (ii) If the area = 56 cm^2, find x