

Starter

1. Evaluate the following if $a = 3$, $b = 6$, $c = -1$:

a. $ab - c$

b. $b^2 - 2ac$

c. $ac^3 - 2b$

2. Change the following to improper fractions

a. $3\frac{2}{7}$

b. $4\frac{3}{5}$

c. $6\frac{3}{8}$

3. The total number of birds in a zoo's enclosure is 108.

If the ratio of native to tropical species is 9 : 3. How many native birds are there?

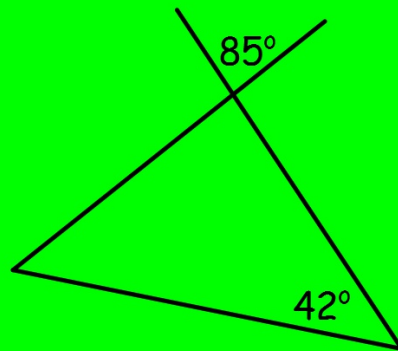
4. Solve:

a. $2x + 3 = x + 10$

b. $5x + 2 = 7x + 14$

Starter

1. Calculate $\frac{2}{7}$ of £1,750.
2. Fill in all the missing angles in the diagram opposite:



3. Simplify the following expressions:
 - a. $2a \times 3a$
 - b. $6e \times 4f$
 - c. $5j \times 3k - 2j \times 4k$
4. Calculate the volume of a cuboid with length = 20cm, height = 3.5cm and breadth = 6cm.

Starter

1. Simplify the following:

a. $4 : 8$

b. $12 : 36$

c. $45 : 60$

2. A rectangle's length is double it's breadth. If the breadth of the rectangle is 7.5m, calculate:

a. The Area

b. The perimeter

3. Simplify the following expressions:

a. $6 \times 3e$

b. $5r \times 2r$

c. $(3f)^3$

4. A cuboid has volume 864litres. Calculate the height of the cuboid given length of 400cm and breadth 80cm.

Starter

1. Calculate:

a. 30% of £430

b. 17.5% of £840

2. Convert 8.21mm into kilometres.

3. Solve:

a. $6g - 3 = 27$

b. $8u - 3 = 5u + 24$

4. Share £594,345 in the ratio of 3 : 2.

5. Write the following as product of prime factors:

a. 30

b. 56

c. 120

