

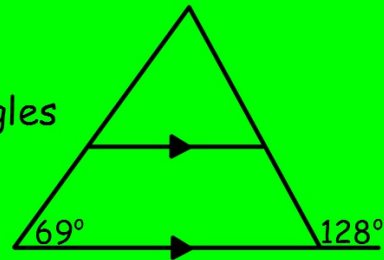
Starter

1. Find

a. $\frac{2}{5} + \frac{3}{8}$

b. $2\frac{3}{4} \times 3\frac{1}{8}$

2. Copy the diagram and fill in the missing angles



3. Fully factorise

a. $5k^2 - 10k$

b. $36ab^2 - 6a^2b$

c. $121xy^3 + 22x^2y^2$

4. Sarah is creating a blend of tea by mixing Assam and Darjeeling teas in the ratio 4:3.

She has 300 g of Assam tea and 240 g of Darjeeling tea.

What is the largest weight of blend she can produce?

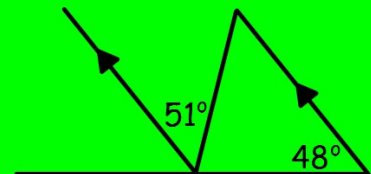
Starter

1. Find

a. $\frac{16}{3} - \frac{2}{9}$

b. $3\frac{4}{7} \div 1\frac{1}{4}$

2. Copy the diagram and fill in the missing angles



3. Solve

a. $5x - 2(x + 3) = 10$

b. $3(x + 5) - 2(2x + 4) = 0$

4. A school theatre trip is made up of teachers and pupils in the ratio 2:15. There are 6 teachers on the trip.
How many people are on the trip altogether?

Starter

1. Find

a. $1\frac{2}{3} + \frac{3}{11}$

b. $7\frac{1}{8} - 2\frac{5}{6}$

2. Fully factorise

a. $6xyz - 12x$

b. $24a^2b + 48ab^2$

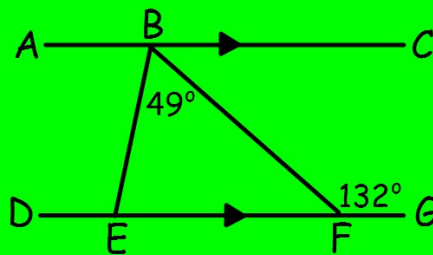
c. $42x^2yz^3 - 18x^2y^2z^4$

3. Iron carbide is made by mixing iron and carbon in the ratio of 2:5.
How much of each element is present in 840g of iron carbide?

4. Find the sizes of

(i) angle CBF

(ii) angle ABE



Starter

1. Solve

a. $4(x + 1) = 2(x - 4)$

b. $10 - 2(3x - 5) = 3(3x + 9)$

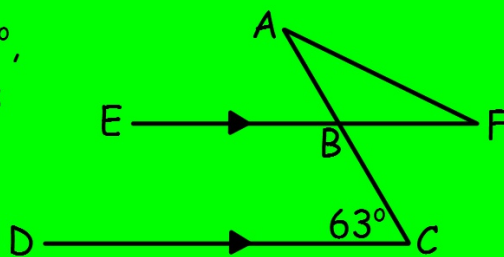
2. Find

a. $2^{3/5} \times 3^{1/2}$

b. $7 \div 2^{3/4}$

3. An orchard has a mixture of apple and pear trees in the ratio 9:2.
There are 108 apple trees in the orchard.
How many trees are there in total?

4. Given that angle AFB is 34° ,
find the size of angle FAB:



Starter

1. Find
a. 4.35×7000 b. 22.5% of £664

2. The ratio of the area of this rectangle to the square is 4:3.
a. Calculate the area of the rectangle
b. Hence, find length of side x



3. Solve $7 - 2(x + 1) - 3(x - 2) = 2$

4. Given that angle VXW is 32° ,
find the size of angle STW

