

Starter

1. Calculate

a. 0.235×800

b. $224 \div 400$

2. Change the following into number form

a. 1.6×10^{-4}

b. 3.08×10^6

3. If $u = (-2)$, $v = (-1)$ and $w = 9$, evaluate

a. $uv - 4w$

b. $2(w - v)^2$

c. $u^2w - v^3$

4. The ratio of cars to lorries passing a check point on a road during one hour was 9 : 2. There were 16 lorries.
How many cars were there?

Starter

1. Round to 2 s.f.

a. 1.764

b. 70600

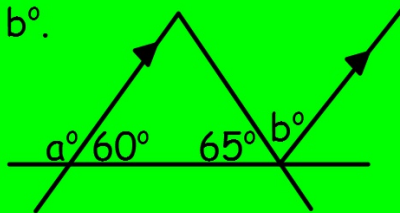
c. 0.00697

2. If $p = (-4)$, $q = 5$, and $r = 2$, evaluate

a. $pr^2 - q$

b. $2(p - r)^2 + q$

3. Find angles a° and b° .



4. A train company sell first class and standard fare tickets in the ratio 2 : 5. If there were 301 passengers on a train, how many of these had paid for a first class ticket?

Starter

1. Calculate

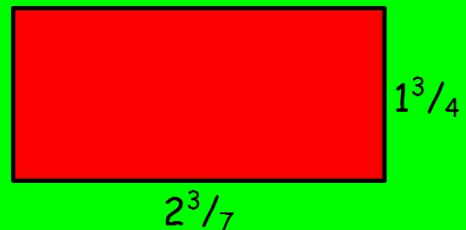
a. 7000×0.25

b. $5.6 \div 80$

2. Given the following rectangle, find its

a. area

b. perimeter



3. Solve the following

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

b. $7(2x + 3) - 4(x + 6) = 2(3x - 1)$

4. A special cereal mixture contains rice : wheat : corn in the ratio 2 : 3 : 5. If a box contains 240 g of wheat, how much rice does it contain?

Starter

1. Round the following to 2 d.p.
a. 703.037 b. 6.408 c. 5.0999
2. Solve
a. $4(g - 10) = 3(g + 2)$ b. $10k - 2(k + 2) + 3(2k - 1) = 0$
3. Cupronickel is made up from copper and nickel in the ratio 3 : 1.
a. How much nickel is needed to mix with 7.5 kg of copper?
b. What weight of each metal is needed to make 150 kg of cupronickel?
4. The area of a rectangle is $7\frac{1}{2}$ cm².
If it is $1\frac{2}{3}$ cm long, calculate its breath.