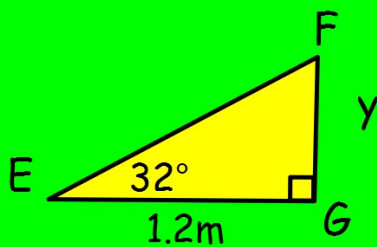


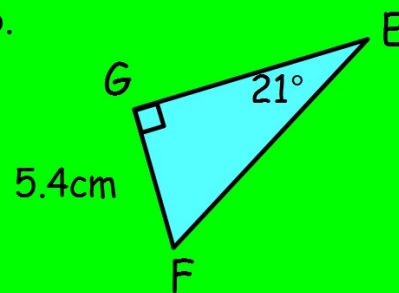
Starter

1. Find the equation of the line which is parallel to $y - 5x + 8 = 0$ which passes through the point $(0, -5)$.
2. Calculate the compound interest earned on £14,599 when it is invested in a high yield bond offering an interest rate of 8.7% p.a. over a 6 year period.
Give your answer correct to the nearest pound.
3. Calculate the length of side EF in the triangles below.

a.



b.



Starter

1. Calculate:

a. $\frac{4}{7} + \frac{2}{21}$

b. $\frac{3}{4} - \frac{5}{6}$

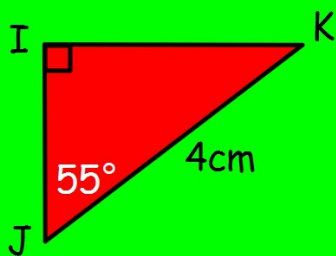
c. $2\frac{2}{5} \div 1\frac{2}{3}$

2. Calculate the diameter of a circle with an area of 423cm^2 .

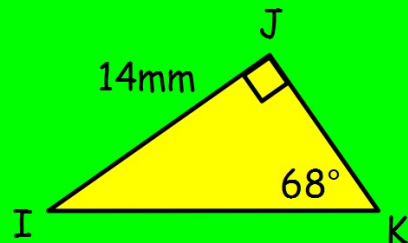
3. Find the equation of a straight line which passes through the points $(0, 4)$ and $(3, -7)$.

4. Calculate length IJ in the triangles below:

a.



b.

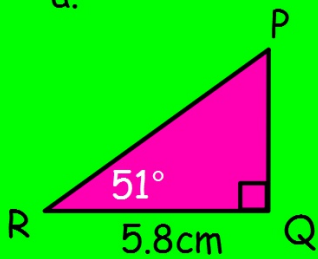


Starter

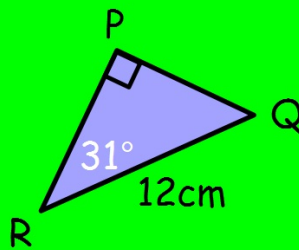
- Find the gradient of the line joining
 - $(3, 5)$ to $(-1, 2)$
 - $(-11, -5)$ to $(-5, -9)$
- A hemisphere has radius 2.46mm .
Find its volume correct to 3 significant figures.

3. Find the length of PQ in each triangle

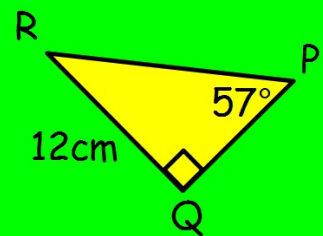
a.



b.



c.



Starter

1. Expand the brackets and simplify

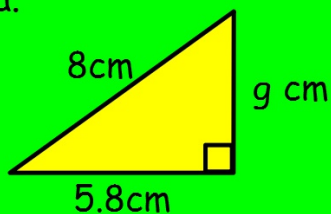
a. $2(y - 4) - 3(4y + 8)$

b. $3k(k - 7) - 2(4 - k^2)$

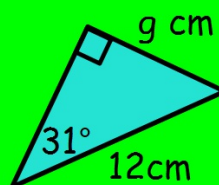
2. The value of a vintage Fender guitar has appreciated steadily at a rate of 2.6% every year since it was played by Jimi Hendrix. When Hendrix played the guitar 45 years ago it was valued at \$1750. How much is the guitar now worth?

3. Find the length of "g" in each triangle below.

a.



b.



c.



Starter

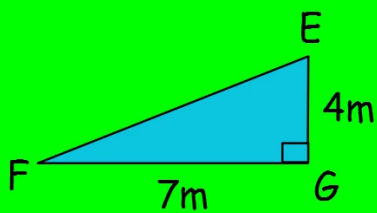
1. Solve the following:

a. $6(2u - 3) - 5(3u - 7) = 12$

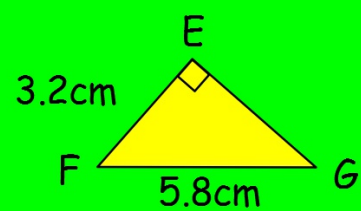
b. $8k(2k - 1) - (10k^2 - 3) = 6k^2$

2. Find the size of angle EFG below:

a.



b.



3. Calculate the compound interest gained on an investment of £5,300 over 6 years at a rate of 2.13% per annum. Give your answer to the nearest thousand.