

Starter

1. Solve each equation below.

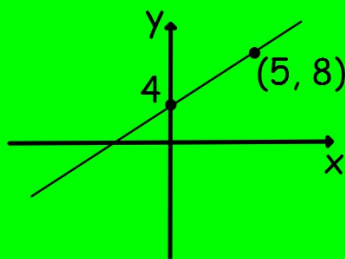
a. $3(m - 5) = 4(m + 9)$

b. $4(p^2 - 8) - 3p = 2p(2p + 6)$

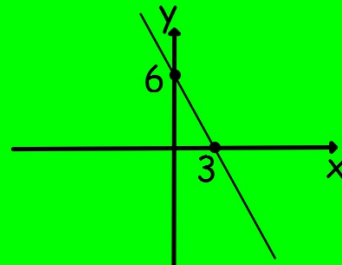
2. Find the perimeter of a quarter circle with radius = 8 cm.

3. Find the equation of each line shown.

a.



b.



4. a. A ship leaves a harbour on a bearing of 127° . Draw this.

b. What bearing must it then take in order to return to the harbour?

Starter

1. Find the 5-figure summary of the following numbers:

8, 12, 7, 18, 14, 7, 9, 12, 7, 16, 25, 9, 24, 39

2. Find the gradient and coordinates of the y-intercept for each line

a. $y = 4x - 8$

b. $6y - 3x - 9 = 0$

c. $8x - 7y = 5$

3. In a Tesco sale, a set of bluetooth speakers were reduced from £105 to £49.99.

a. Express the reduction as a percentage of the original price.

b. In the same sale a 52" plasma screen TV was reduced to a price of £399.95.

What did the TV cost before the sale?

Starter

1. If $g = 3$, $h = -2$ and $j = -5$, find the value of
 - a. $gh - 3j$
 - b. $h^2 - jg + 5g$
 - c. $gh^2 - h^2j$
2. An aircraft flies 65 km due North and then 40 km due East. Calculate how far the aircraft would have travelled if it had taken the most direct route.
3. Paul weighed 78.2kg on January 1st. By February 1st, he weighed 80.5kg.
 - a. Express his weight increase as a percentage.
 - b. If his weight continues to rise at this rate each month, calculate what his weight will be on August 1st.

Starter

1. Solve

a. $7y - 8 = 3y + 36$

b. $4t - 5(t + 6) = 3(8 - 2t)$

2. Find the equation of the line which joins

a. $(0, -3)$ to $(4, 7)$

b. $(5, -8)$ to $(0, -7)$

3. Calculate the angles required to draw a pie chart:

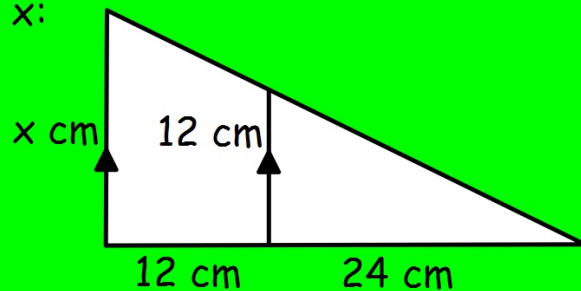
a. White (4)

b. Red (41)

c. Blue (34)

d. Black (11)

4. Calculate x :



Starter

1. Solve each equation below.

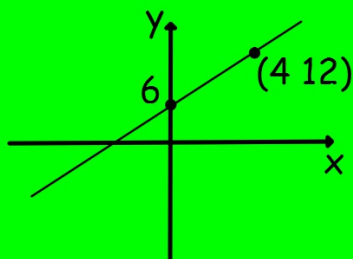
a. $8(m - 2) = 4(m + 9)$

b. $6(p^2 - 2) + 5p = 2p(3p + 5)$

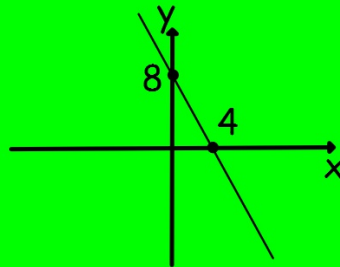
2. Find the perimeter of a semi circle with diameter = 9 cm.

3. Find the equation of each line shown.

a.



b.



4. a. A scout leaves a camp on a bearing of 232° . Draw this.

b. What bearing must he then take in order to return to the camp?