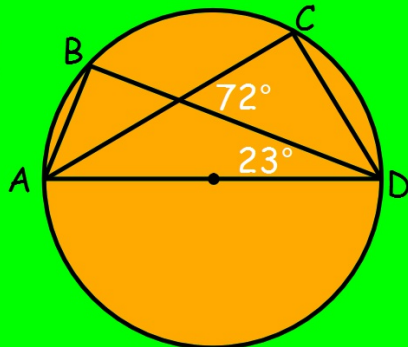


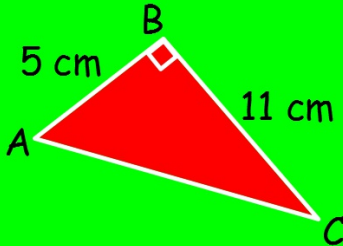
Starter

- Jordan Belfort is a wall street trader.
In one year his company makes a gross profit of \$27.38 million.
If his company's profit grows at a rate of 11.7% p.a. for 6 years,
what will the new gross profit be?
- Solve
 - $3(4x - 3) + 10 = 2$
 - $13 - 4g < 5(g + 6)$
- Find the equation of the line passing through the points $S(-2, 7)$
and $T(0, -9)$.
- Find angle BAC.



Starter

1. Lindsay bought a bumper pack of Shopkins in Toys 'R' Us for £36.39. The pack was reduced by 17.5% as part of a special promotion. How much did the Shopkins cost before the promotion?

2. Find the size of angle BCA.
A right-angled triangle with vertices A, B, and C. The right angle is at vertex B, indicated by a small square symbol. Side AB is labeled 5 cm and side BC is labeled 11 cm. The triangle is shaded red.

3. Find the distance between the points (2, 8) and (-1, 15).

4. Solve the following: $\frac{3x}{2} + \frac{3}{8} = \frac{5}{4}$

Starter

1. Sketch the following lines, marking the y-intercept clearly:

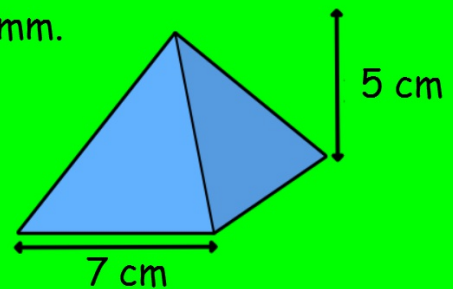
a. $y = 8x + 2$

b. $3y = -3x + 12$

2. Find the volume of

a. A cylinder with height 5 mm and radius 7 mm.

b. The square-based pyramid shown.



3. Solve:
$$\frac{3(2g - 3)}{4} = \frac{g + 5}{3}$$

4. Find the **area** and **perimeter** of a quarter-circle with radius 10 cm.

Starter

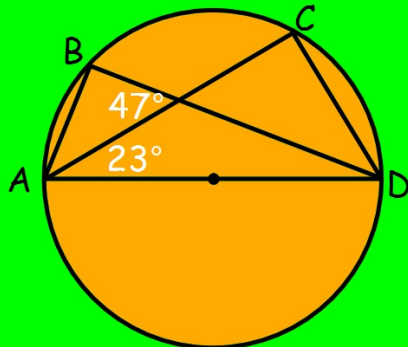
1. Tim Cook is the CEO of a major company.
In one year his company makes a gross profit of \$43 billion.
If his company's profit grows at a rate of 10.2% p.a. for 3 years,
what will the new gross profit be?

2. Solve

$$10 - 5g < 5(g - 6)$$

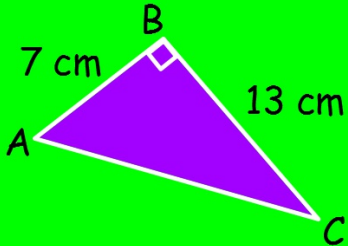
3. Find the equation of the line passing through the points $S(-4, 8)$
and $T(0, -4)$.

4. Find angle BDC.



Starter

1. Lindsay bought a trike in Toys 'R' Us for £85.
The pack was reduced by 15% as part of a special promotion.
How much did the trike cost before the promotion?

2. Find the size of angle BAC.
A right-angled triangle with vertices A, B, and C. The right angle is at vertex B, indicated by a small square symbol. Side AB is labeled 7 cm and side BC is labeled 13 cm. The angle to be found is angle BAC.

3. Find the distance between the points (3, -6) and (-1, 0).

4. Solve the following: $\frac{3x}{4} + \frac{3}{5} = \frac{5}{12}$

