Learning Grid – Higher Revision Mat (Roll two dice to find your question)

ACCESS MATHS

6
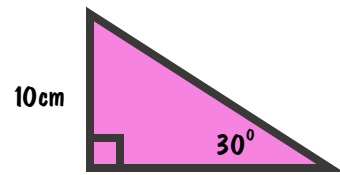
10cm, 30°
Find the length of the hypotenuse

Factorise and solve:
$$x^2 + 5x - 24$$

Solve the simultaneous equations:
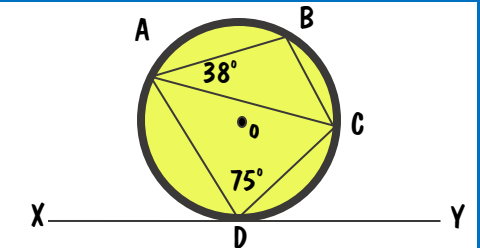$$2x + 3y = 17$$
$$3x + 5y = 27$$

Simplify:
$$\frac{3x + 15}{5x + 25}$$

Solve and express on a number line:
$$4x + 1 \leq 3x - 5$$

A, B, 38°, C, 75°, D, X, Y
Find angle ABC in circle centre O

5

Solve the simultaneous equations:
$$2x - 4y = 2$$
$$3x + 5y = 25$$

Solve and express on a number line:
$$2x + 3 \geq x + 1$$

10cm, 12cm
Find the length of the hypotenuse
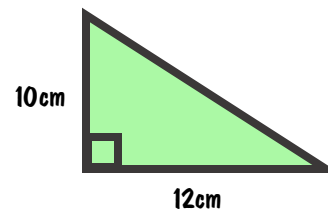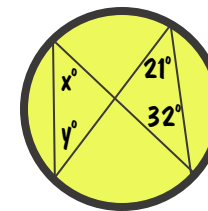
x°, 21°, 32°, y°
Find the angles shown with an x and y

Complete the square:
$$x^2 + 8x + 20$$

Simplify:
$$\frac{x^2 + 4x + 3}{6x + 18}$$

4
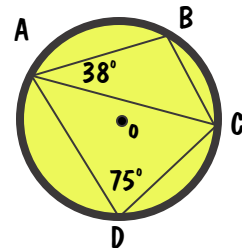
A, B, 38°, C, O, 75°, D
Find angle BCA in circle centre O

Complete the square:
$$x^2 - 6x + 10$$

Simplify:
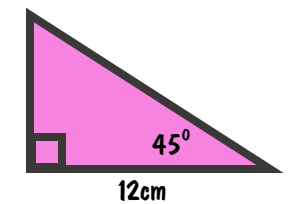$$\frac{x^2 + 8x - 33}{x^2 - 9}$$

Solve the simultaneous equations:
$$4x - 2y = 10$$
$$2x - 5y = -23$$

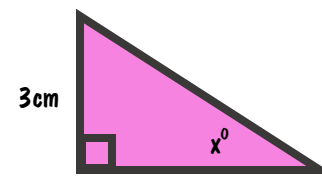Solve and express on a number line:
$$3x - 12 \leq x - 4$$

45°, 12cm
Find the length of the hypotenuse

3

Solve the simultaneous equations:
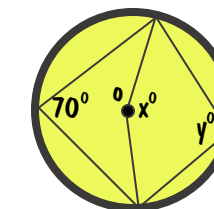$$y = x^2 + 2x - 3$$
$$y = 2x + 1$$

3cm, x°, 4.5cm
Find the angle marked x

Factorise:
$$x^2 - 9x + 20$$

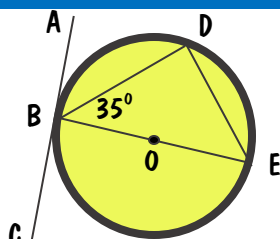Solve and express on a number line:
$$5x - 12 \leq 3x + 4$$

70°, O, x°, y°
Find the angles x and y in the circle with centre o
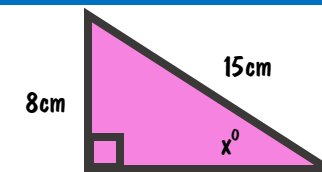
Simplify:
$$\frac{6x}{5} \div \frac{3}{4x}$$

2

A, D, B, 35°, O, E, C
Find the angle ABD

Solve and express on a number line:
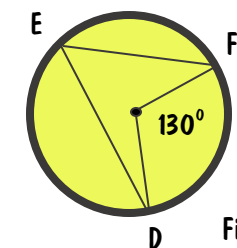$$2x + 5 > 4x + 1$$

Solve the simultaneous equations:
$$y = x^2 - 2x - 5$$
$$y = x - 1$$

8cm, 15cm, x°
Find the angle marked x

Factorise:
$$2x^2 + 4x - 3$$

E, F, 130°, D
Find the angle DEF

1

Solve and express on a number line:
$$5x + 2 < 2x + 11$$
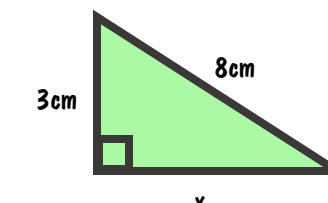
Simplify:
$$\frac{21x - 14}{8x} \times \frac{4}{24x^2 - 16x}$$
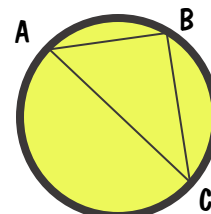
A, B, C
Find the angle ABC where AC is the diameter:

Factorise:
$$x^2 + 7x + 10$$

3cm, 8cm, x
Find the side length marked x

Solve the simultaneous equations:
$$x^2 + y^2 = 25$$
$$x + y = 7$$

1 **2** **3** **4** **5** **6**