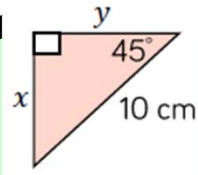


# Year 10 Mathematics Learning Journey: Unit 3 - Trigonometry

## Step 9: Key angles

Find the exact values of  $x$  and  $y$ .

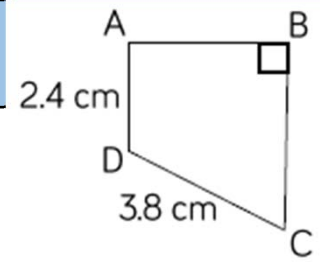


## Step 9: Key angles

What do we mean by 'leave your answer as an exact value'?

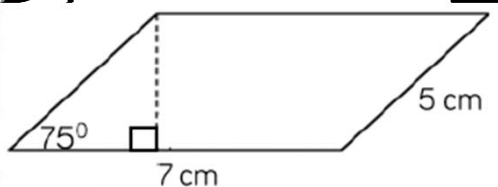
## Step 8: Right-angled triangle problems

ABCD is a trapezium. Angle BCD is  $48^\circ$ . How many side lengths and angles can you find?



## Step 4: Sine and Cosine – side lengths

Calculate the area of a parallelogram.



## Step 5: Finding side lengths

How do we know which trigonometric ratio to use?

## Step 6: Finding angles

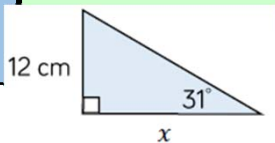
What is the difference between  $\sin x$  and  $\sin^{-1} x$ ?

## Step 7 (R): Pythagoras' Theorem

What other topics could Pythagoras' theorem link to?

## Step 3: Tangent ratio – side lengths

Find the length of  $x$ .



## Step 2: Hypotenuse, opposite, adjacent

Label the sides.



## Step 1: Ratio in right-angled triangles

Find the value of  $x$ .

