Rectangles (Area and Perimeter)  
www.m4ths.com

Task 1 Counting Squares  
Find the area AND perimeter of each shape by counting the squares.

Task 2 Finding Areas  
Calculate the area AND perimeter of each shape.

Task 3 Finding Missing Lengths  
Find the missing side lengths of each shape AND each perimeter.

Parallelograms (Area)  
www.m4ths.com

Task 1 Finding Areas  
Explain why each shape below is a parallelogram and find the area of each shape.

Task 2 Finding Missing Lengths  
Find the value of x and y in the diagrams below.

Triangles (Area)  
www.m4ths.com

Task 1 Misconceptions and Errors  
Explain common error students make when finding the area of a triangle.

Task 2 Finding Areas  
State the type of triangle shown below and find the area of each.

Task 3 Finding Areas  
Find the area of each triangle below and state whether you can confirm each triangle is an isosceles triangle.

Task 4 Finding Missing Lengths  
Find the value of x in the diagram below.

Trapeziums (Area)  
www.m4ths.com

On some exam papers you are given the formula to work out the area of a Trapezium  

\[ \text{Area of trapezium} = \frac{1}{2} (a + b)h \]

Simply put “Add the top & the bottom, multiply that by the height (h) & half your answer.”

Task 1 Finding Areas  
Find the area of each trapezium below.

Task 2 Finding Missing Lengths  
Find the value of x in the diagram below.
Kites (Area)  
www.m4ths.com

Task 1 Misconceptions and Errors  
Explain common error students make when finding the area of a kite.

Task 2 Finding Areas  
Calculate the area of each kite below

10cm  
6cm

Task 2 Finding Missing Lengths  
Find the value of x and y in the diagrams below.

Compound Shapes (Area and Perimeter)  
www.m4ths.com

Task 1 Counting Squares  
Find the area AND perimeter of the shape below by counting the squares.

Task 2 Finding Areas  
Calculate the area of each shape below.

Task 3 Finding Areas and Circumferences  
Find the area and circumference of a semicircle with a radius of 9cm.

Circles (Area and Circumference)  
www.m4ths.com

Formulae  
Area = \( \pi r^2 \)  
Circumference = \( 2\pi r \)

Task 1 Finding Areas and Circumferences  
Calculate the area AND circumference of each circle below. Give each answer to one decimal place. Take \( \pi = 3.142 \) if you don’t have the \( \pi \) button on your calculator.

Task 2 Finding Areas and Circumferences  
Calculate the area AND circumference of each circle below. Give each answer to one decimal place. Take \( \pi = 3.142 \) if you don’t have the \( \pi \) button on your calculator.

Task 3 Finding Areas and Circumferences  
Find the area and circumference of a semicircle with a radius of 9cm.

Tougher Questions (Area and Perimeter)  
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(1) Without using a calculator, find the area of the triangle below:

(2) Given that \( \pi \) was taken to be 3, without a calculator, find the value of \( x \) in the diagram below:

(3) Given that the area of the isosceles triangle below is 50cm\(^2\), find the perimeter of the square attached to it.