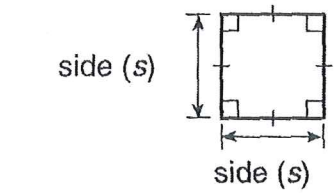
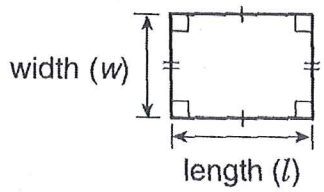
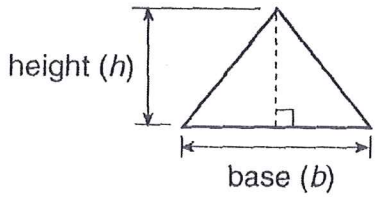
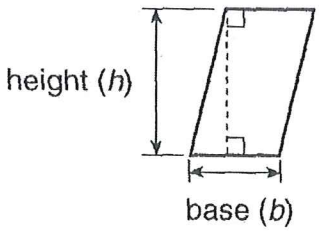
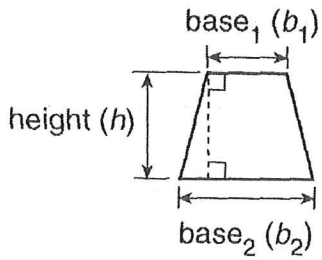
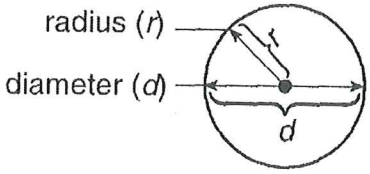
Area- Review

Key

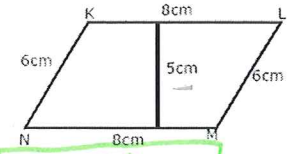
Area

Area is the measure of the region inside a closed plane figure. Area is measured in square units. The table below shows formulas to find the area of different geometric shapes.

Name			Example
square		$A = s^2$	$s = 3$ in. $A = (3 \text{ in.}) \times (3 \text{ in.})$ $A = 9 \text{ in.}^2$
rectangle		$A = lw$	$l = 10$ cm; $w = 5$ cm $A = 10 \text{ cm} \times 5 \text{ cm}$ $A = 50 \text{ cm}^2$
triangle		$A = \frac{1}{2}bh$ or $A = \frac{bh}{2}$	$b = 4$ m; $h = 3$ m $A = \frac{4 \text{ m} \times 3 \text{ m}}{2}$ $A = \frac{12}{2}$ $A = 6 \text{ m}^2$
parallelogram		$A = bh$	$b = 8.5$ yd; $h = 14$ yd $A = 8.5 \text{ yd} \times 14 \text{ yd}$ $A = 119 \text{ yd}^2$
trapezoid		$A = \frac{1}{2}h(b_1 + b_2)$ or $A = \frac{h(b_1 + b_2)}{2}$	$b_1 = 3$ ft; $b_2 = 5$ ft; $h = 4$ ft $A = \frac{4 \text{ ft } (3 \text{ ft} + 5 \text{ ft})}{2}$ $A = \frac{4 \text{ ft } (8 \text{ ft})}{2}$ $A = \frac{32}{2} = 16 \text{ ft}^2$
circle		$A = \pi r^2$	$r = 6$ cm; $\pi \approx 3.14$ $A = 3.14 \times (6)^2$ $A = 3.14 \times 36 \text{ cm}^2$ $A = 113.04 \text{ cm}^2$

Area and Perimeter of Triangles, Parallelograms and Trapezoids - Independent Practice Worksheet

1. Find the area and perimeter of parallelogram.



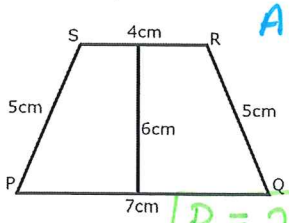
$A = b \cdot h$

$A = 8 \cdot 5$

$A = 40cm^2$

$P = 28cm$

2. Find the area and perimeter of the trapezoid.



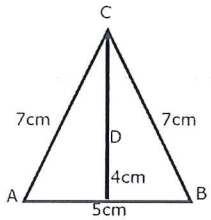
$A = \frac{1}{2}(b_1 + b_2)h$

$A = \frac{1}{2}(4+7) \cdot 6$

$A = 33cm^2$

$P = 21cm$

3. Find the area and perimeter of triangle.



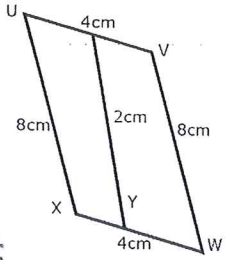
$A = \frac{1}{2} b \cdot h$

$A = \frac{1}{2} 5 \cdot 4$

$A = 20cm^2$

$P = 19cm$

4. Find the area and perimeter of parallelogram.



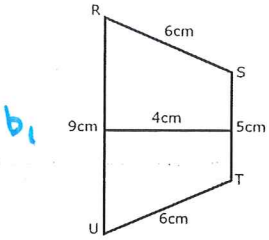
$A = b \cdot h$

$A = 4 \cdot 2$

$A = 8cm^2$

$P = 24cm$

5. Find the area and perimeter of the trapezoid.



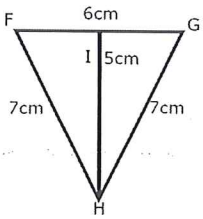
$A = \frac{1}{2}(b_1 + b_2)h$

$A = \frac{1}{2}(5+9)4$

$A = 28cm^2$

$P = 26cm$

6. Find the area and perimeter of triangle.



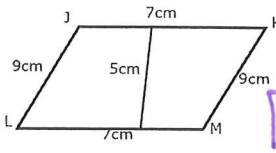
$A = \frac{1}{2} b \cdot h$

$A = \frac{1}{2} 6 \cdot 5$

$A = 15cm^2$

$P = 20cm$

7. Find the area and perimeter of parallelogram.



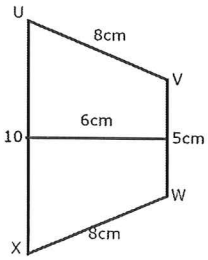
$A = b \cdot h$

$A = 7 \cdot 5$

$A = 35cm^2$

$P = 32cm$

8. Find the area and perimeter of the trapezoid.



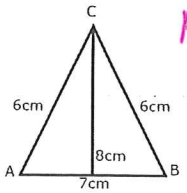
$A = \frac{1}{2}(b_1 + b_2)h$

$A = \frac{1}{2}(10+5)6$

$A = 45cm^2$

$P = 31cm$

9. Find the area and perimeter of triangle.

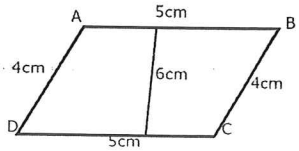


$A = \frac{1}{2} 8 \cdot 7$

$A = 28cm^2$

$P = 19cm$

10. Find the area and perimeter of parallelogram.



$P = 18cm$

$A = 5 \cdot 6$

$A = 30cm^2$