$\qquad$ Date: $\qquad$


Area of Parallelograms
Classification of Quadrilaterals


Note that squares, rectangles, and rhombuses are types of parallelograms and that a square is a type of rectangle and a type of rhombus.

Area of Rectangles and Squares


Anear frantelegesmens $A=b b$

height = perpendicular distance between the two bases!

Find the area of the parallelogram.
1)

2)

$A=5.4$ (12.75)

$$
A=9(16)=144 \mathrm{in}^{2}
$$

3) 



$$
\begin{aligned}
A & =10 \frac{1}{2}\left(15 \frac{1}{8}\right) \\
& =\frac{21}{2} \times \frac{121}{8}
\end{aligned}
$$

4) Find the base of a parallelogram with an area of 18 square inches and a height of 2 inches.

$$
A=6 h \quad 18=26 \quad b=9 \mathrm{in}
$$

5) Find the height of a parallelogram with an area of 63 square yards and base 9 yards.

$$
A=10 \mathrm{~h} \quad 63=9 \mathrm{~h} \quad \mathrm{~h}=7 \mathrm{yd}
$$

$$
A=6 \mathrm{~h} \frac{41}{8.2}=\frac{8.2 \mathrm{~h}}{\text { di 2 }} \quad 8.2 \sqrt{410} \frac{310}{0}
$$

