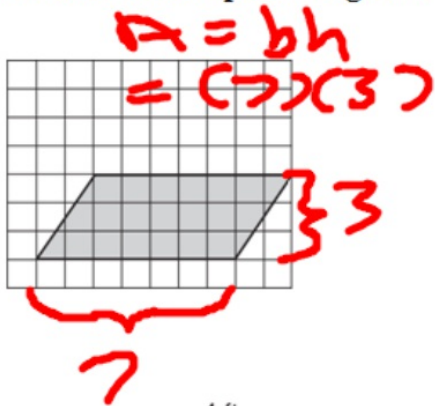## Area of Parallelograms
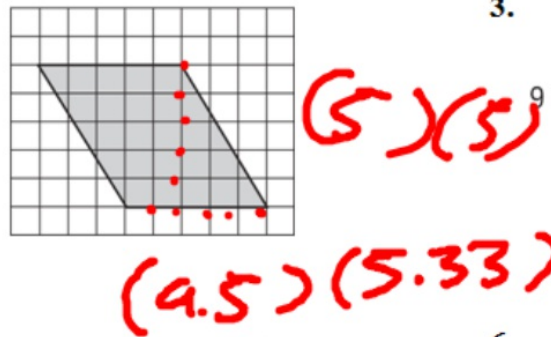
Find the area of each parallelogram.
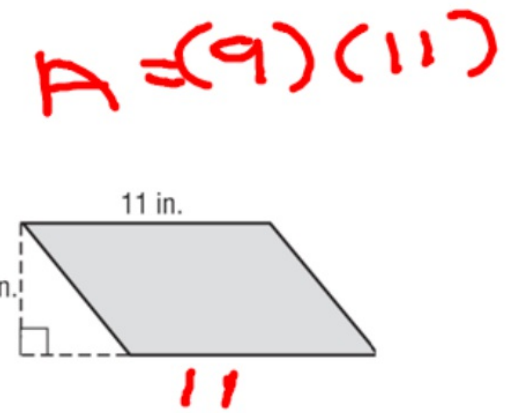
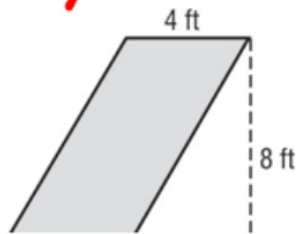**1.**

$A = bh$
$= (7)(3)$

33

7

2.

$(6)(5)$

$(9.5)(5.33)$

3.

11 in.

9 in.

$A = (9)(11)$

11

4.
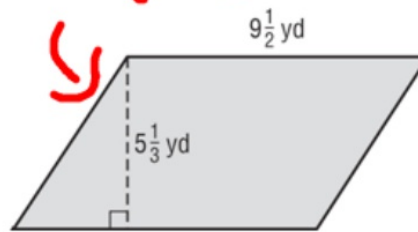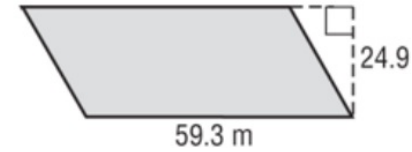
4 ft

8 ft

5.

$9\frac{1}{2}$ yd

$5\frac{1}{3}$ yd

6.

24.9

59.3 m

Find the area of the shaded region in each figure.

$(31)(18) = 558 - 78 = 480 \text{ mm}^2$

7.

31 mm

13 mm

6 mm

18 mm

$(6)(13)$ $= 78$

8.

7 in. **91**
13 in.

12 in.

21 in. $= 252 - 91$

$= 161 \text{ in}^2$
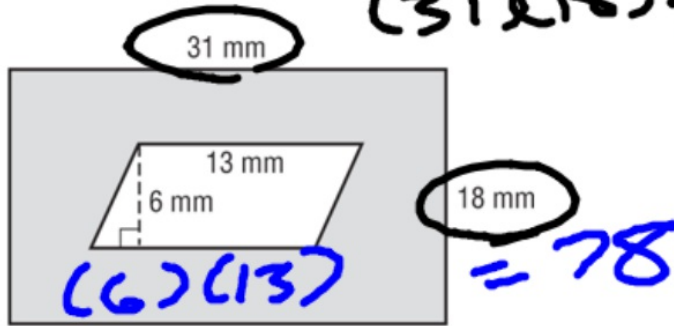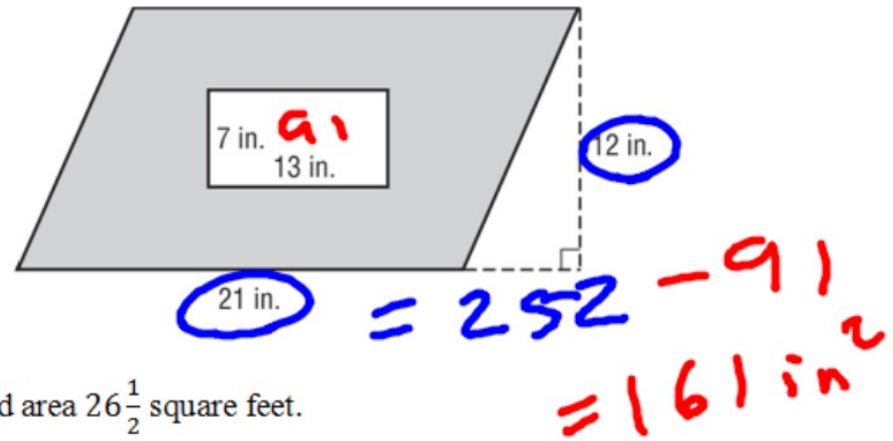
9. Find the base of a parallelogram with height $6\frac{5}{8}$ feet and area $26\frac{1}{2}$ square feet.

10. Find the height of a parallelogram with base 9.44 meters and area 70.8 square meters.

$$A = \frac{1}{2}bh$$

Find the missing dimension.

7. height: 15 ft

   area: 285 ft^2

8. base: 17 cm

   area: 18.7 cm^2

9. height: $12\frac{1}{4}$ in.

   area: $128\frac{5}{8}$ in^2

2. $285 = \frac{1}{2}b(15) \cdot 2$

$570 = 15b$

$b = 38$

12. **MURALS** Aubrey is painting a mural of an ocean scene. The triangular sail on a sailboat has a base of 4 feet and a height of 6 feet. Aubrey will paint the sail using a special white paint. A can of this paint covers 10 square feet. How many cans of white paint will Aubrey need?

$\frac{1}{2}(6)(4)$

$\frac{1}{2}(24)$

12 ft^2