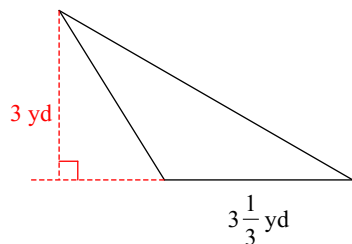


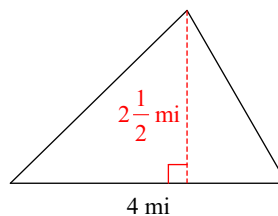
Triangles with Fraction Side Lengths

Find the area of each triangle.

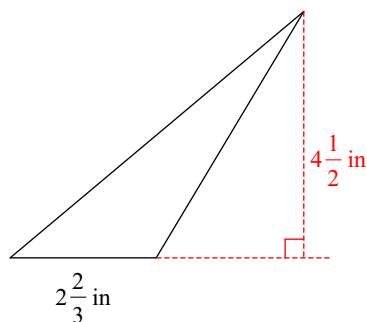
1)



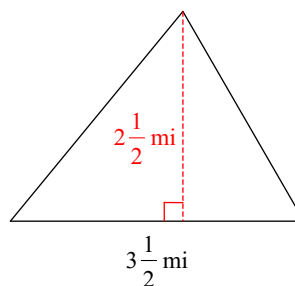
2)



3)



4)

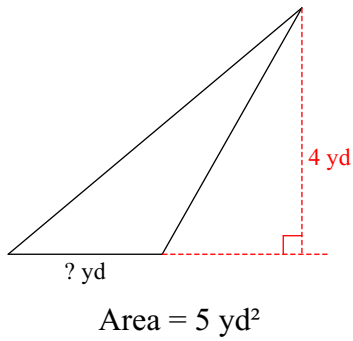
**Solve each problem.**

5) A triangle has a base of $1\frac{1}{3}$ ft and a height of $2\frac{2}{3}$ ft. What is the area of the triangle?

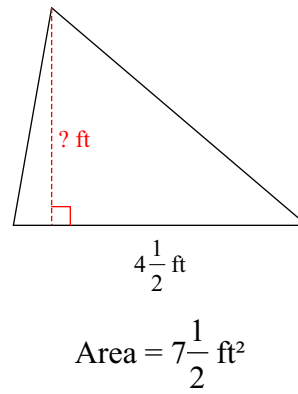
6) A triangle has a base of $4\frac{1}{2}$ in and a height of $4\frac{1}{2}$ in. What is the area of the triangle?

Find the missing measure for each triangle.

7)



8)



Solve each problem.

9) A triangle has a base of $2\frac{1}{2} \text{ in}$ and an area of $5\frac{5}{8} \text{ in}^2$. What is the height of the triangle?

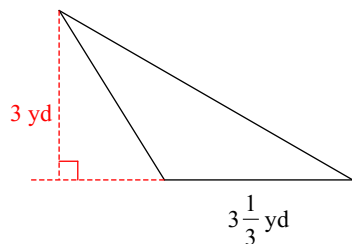
10) A triangle has a height of $4\frac{1}{2} \text{ yd}$ and an area of $10\frac{1}{8} \text{ yd}^2$. What is the base of the triangle?

Triangles with Fraction Side Lengths

Date _____ Period _____

Find the area of each triangle.

1)

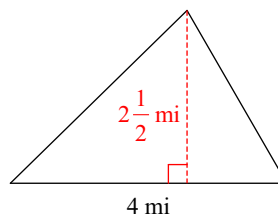


$$A = \frac{1}{2} \times b \times h$$

$$A = \frac{1}{2} \times \frac{10}{3} \times 3$$

$$5 \text{ yd}^2$$

2)

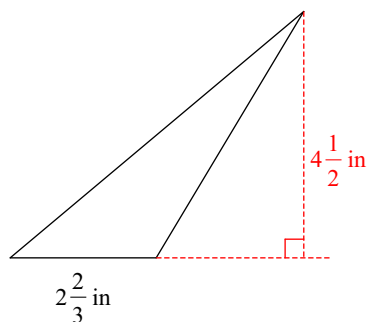


$$A = \frac{1}{2} \times b \times h$$

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

$$5 \text{ mi}^2$$

3)

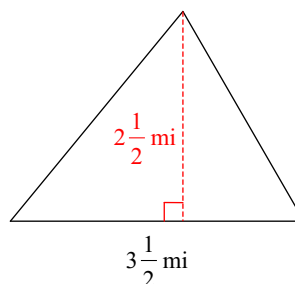


$$A = \frac{1}{2} \times b \times h$$

$$A = \frac{1}{2} \times \frac{8}{3} \times \frac{9}{2}$$

$$6 \text{ in}^2$$

4)



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

$$A = \frac{1}{2} \times \frac{7}{2} \times \frac{5}{2}$$

$$4\frac{3}{8} \text{ mi}^2$$

Solve each problem.

5) A triangle has a base of $1\frac{1}{3}$ ft and a height of $2\frac{2}{3}$ ft. What is the area of the triangle?

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

$$A = \frac{1}{2} \times \frac{4}{3} \times \frac{8}{3}$$

$$1\frac{7}{9} \text{ ft}^2$$

6) A triangle has a base of $4\frac{1}{2}$ in and a height of $4\frac{1}{2}$ in. What is the area of the triangle?

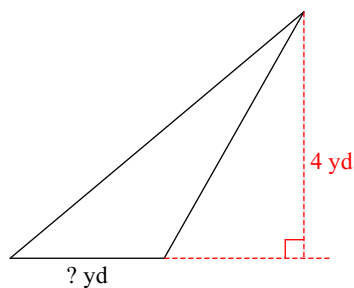
$$A = \frac{1}{2} \times b \times h$$

$$A = \frac{1}{2} \times \frac{9}{2} \times \frac{9}{2}$$

$$10\frac{1}{8} \text{ in}^2$$

Find the missing measure for each triangle.

7)



$$\text{Area} = 5 \text{ yd}^2$$

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

$$5 = \frac{1}{2} \times b \times 4$$

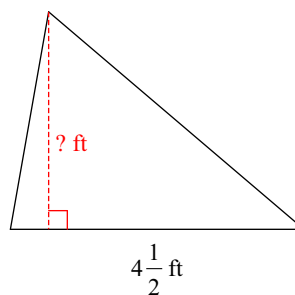
$$5 = b \times 2$$

$$b = 5 \div 2$$

$$b = 5 \times \frac{1}{2}$$

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

8)



$$\text{Area} = 7\frac{1}{2} \text{ ft}^2$$

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

$$\frac{15}{2} = \frac{1}{2} \times \frac{9}{2} \times h$$

$$\frac{15}{2} = \frac{9}{4} \times h$$

$$h = \frac{15}{2} \div \frac{9}{4}$$

$$b = \frac{15}{2} \times \frac{4}{9}$$

$$3\frac{1}{3} \text{ ft}$$

Solve each problem.

9) A triangle has a base of $2\frac{1}{2}$ in and an area of $5\frac{5}{8}$ in². What is the height of the triangle?

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

$$\frac{45}{8} = \frac{1}{2} \times \frac{5}{2} \times h$$

$$\frac{45}{8} = \frac{5}{4} \times h$$

$$h = \frac{45}{8} \div \frac{5}{4}$$

$$b = \frac{45}{8} \times \frac{4}{5}$$

$$4\frac{1}{2} \text{ in}$$

10) A triangle has a height of $4\frac{1}{2}$ yd and an area of $10\frac{1}{8}$ yd². What is the base of the triangle?

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

$$\frac{81}{8} = \frac{1}{2} \times b \times \frac{9}{2}$$

$$\frac{81}{8} = b \times \frac{9}{4}$$

$$b = \frac{81}{8} \div \frac{9}{4}$$

$$b = \frac{81}{8} \times \frac{4}{9}$$

$$4\frac{1}{2} \text{ yd}$$