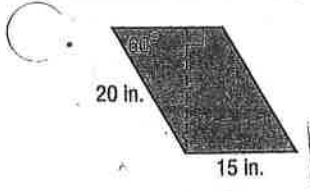


# Geometry HW: Area using Right Triangles

Name: \_\_\_\_\_

Find the area of each figure. Round to the nearest tenth if necessary.

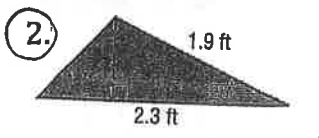


$$\sin 60 = h/20$$

$$h = 17.3$$

$$A = (15)(17.3)$$

$$A = 259.5 \text{ in}^2$$

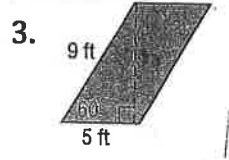


$$\sin 25 = h/1.9$$

$$h = 0.8$$

$$A = .5(2.3)(0.8)$$

$$A = 0.9 \text{ ft}^2$$

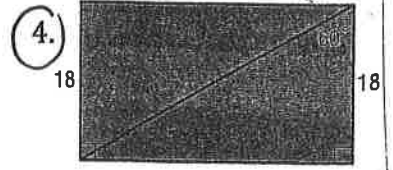


$$\sin 60 = h/9$$

$$h = 7.8$$

$$A = 7.8(5)$$

$$A = 39 \text{ ft}^2$$

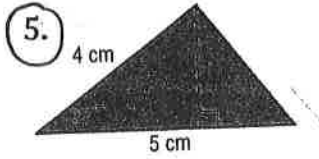


$$\tan 60 = b/18$$

$$b = 31.2$$

$$A = 18(31.2)$$

$$A = 561.6$$

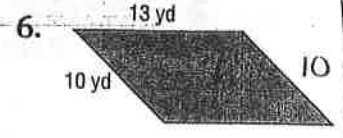


$$\sin 37 = h/4$$

$$h = 2.4$$

$$A = .5(5)(2.4)$$

$$A = 6 \text{ cm}^2$$

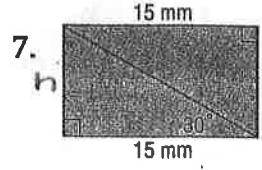


$$\sin 45 = h/10$$

$$h = 7.1$$

$$A = (7.1)(13)$$

$$A = 92.3 \text{ yd}^2$$

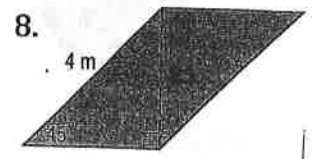


$$\tan 30 = h/15$$

$$h = 8.7$$

$$A = 15(8.7)$$

$$A = 130.5 \text{ mm}^2$$

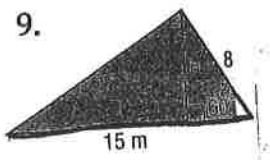


$$\sin 45 = h/4$$

$$h = b = 2.8$$

$$A = 2.8(2.8)$$

$$A = 7.8 \text{ m}^2$$

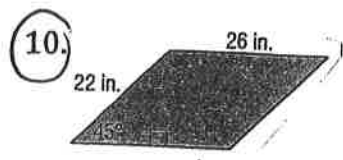


$$\sin 60 = h/8$$

$$h = 6.9$$

$$A = .5(15)(6.9)$$

$$A = 51.8 \text{ m}^2$$

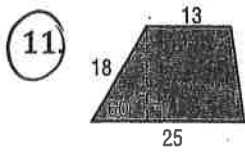


$$\sin 45 = h/22$$

$$h = 15.6$$

$$A = 15.6(26)$$

$$A = 405.6 \text{ in}^2$$

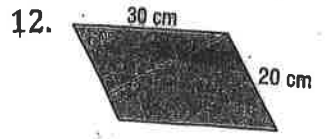


$$\sin 60 = h/18$$

$$h = 15.6$$

$$A = .5(15.6)(13+25)$$

$$A = 296.4$$

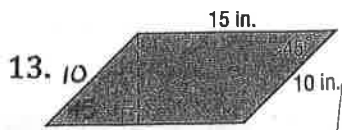


$$\sin 60 = h/20$$

$$h = 16.0$$

$$A = 26(20)$$

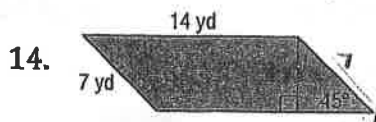
$$A = 520 \text{ cm}^2$$



$$h = 7.1$$

$$A = 7.1(15)$$

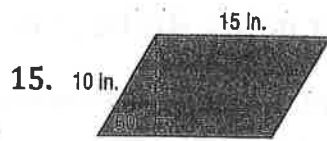
$$A = 106.5 \text{ in}^2$$



$$\sin 45 = h/7$$

$$h = 4.9$$

$$A = 68.6 \text{ yd}^2$$



$$\sin 60 = h/10$$

$$h = 8.7$$

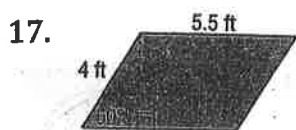
$$A = 130.5 \text{ in}^2$$



$$\sin 45 = h/9$$

$$h = 6.4$$

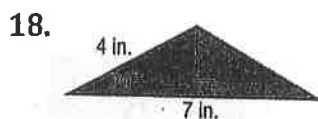
$$A = 179.2 \text{ ft}^2$$



$$\sin 60 = h/4$$

$$h = 3.5$$

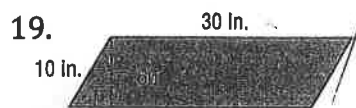
$$A = 19.3 \text{ ft}^2$$



$$\sin 29 = h/4$$

$$h = 1.9$$

$$A = 6.7 \text{ in}^2$$



$$\sin 60 = h/10$$

$$h = 8.7$$

$$A = 261 \text{ in}^2$$