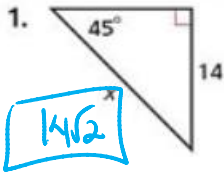
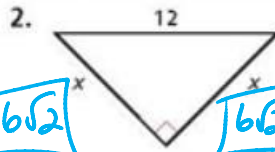


Find the value of x . Give your answer in simplest radical form.



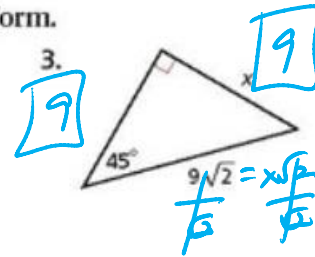
$14\sqrt{2}$



$6\sqrt{2}$

$$\frac{x\sqrt{2}}{\sqrt{2}} = \frac{12 \cdot \sqrt{2}}{\sqrt{2} \cdot \sqrt{2}} = \frac{12\sqrt{2}}{2}$$

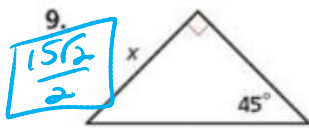
$$6\sqrt{2}$$



9

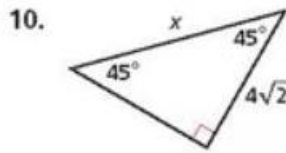
$\frac{9\sqrt{2}}{\sqrt{2}} = \frac{x\sqrt{2}}{\sqrt{2}}$

Find the value of x . Give your answer in simplest radical form.



$\frac{15\sqrt{2}}{2}$

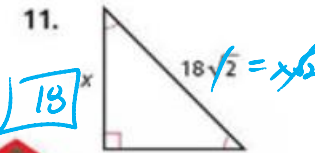
$$\frac{x\sqrt{2}}{\sqrt{2}} = \frac{15 \cdot \sqrt{2}}{\sqrt{2}} = \frac{15\sqrt{2}}{2}$$



$4\sqrt{2} \cdot \sqrt{2}$

$4 \cdot 2$

8



18

$18\sqrt{2} = x\sqrt{2}$

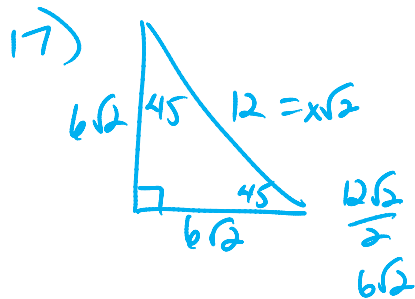
Multi-Step Find the perimeter and area of each figure.

Give your answers in simplest radical form.

17. a $45^\circ-45^\circ-90^\circ$ triangle with hypotenuse length 12 inches

~~18.~~ a $30^\circ-60^\circ-90^\circ$ triangle with hypotenuse length 28 centimeters

19. a square with diagonal length 18 meters



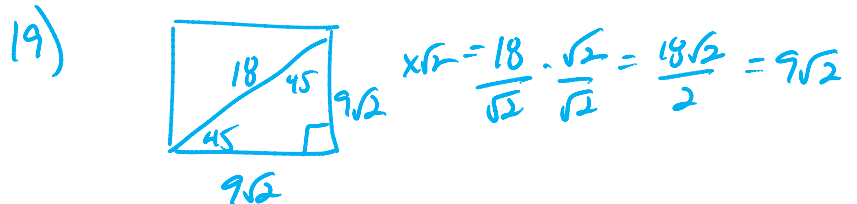
$$P = 6\sqrt{2} + 6\sqrt{2} + 12$$

$$= 12\sqrt{2} + 12$$

$$A = \frac{6\sqrt{2} \cdot 6\sqrt{2}}{2}$$

$$= \frac{36 \cdot 2}{2}$$

$$= 36$$



$$x\sqrt{2} = \frac{18 \cdot \sqrt{2}}{\sqrt{2}} = \frac{18\sqrt{2}}{2} = 9\sqrt{2}$$

$$P = (9\sqrt{2})4$$

$$= 36\sqrt{2}$$

$$A = (9\sqrt{2})^2$$

$$= 81 \cdot 2$$

$$= 162$$