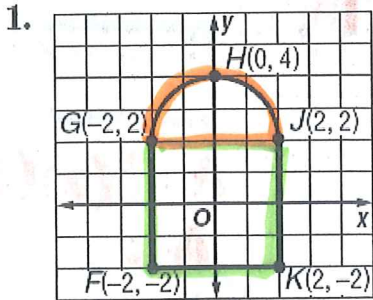


Name: _____

Areas of Composite Figures Homework

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



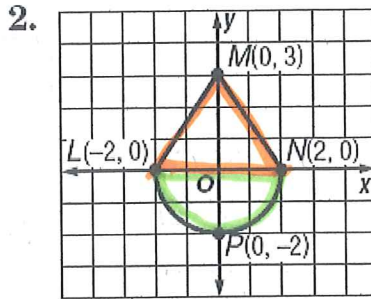
$$A = \frac{1}{2} \pi (2)^2$$

$$A = 2\pi$$

$$A = (4)(4)$$

$$A = 16$$

$$A = 16 + 2\pi \text{ units}^2$$



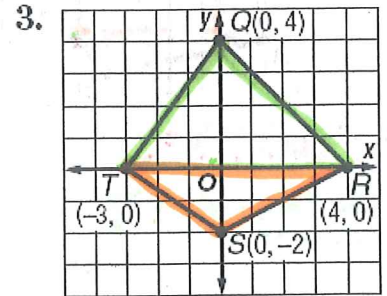
$$A = \frac{1}{2} (4)(3)$$

$$A = \frac{1}{2} (12) = 6$$

$$A = \frac{1}{2} \pi (2)^2$$

$$A = 2\pi$$

$$A = 6 + 2\pi \text{ units}^2$$



$$A = \frac{1}{2} (7)(4)$$

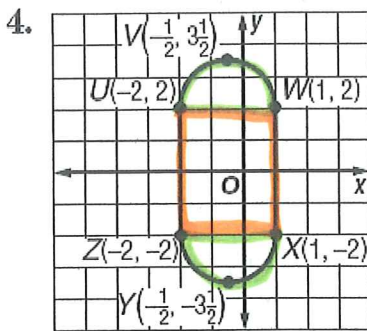
$$A = \frac{1}{2} (28) = 14$$

$$A = \frac{1}{2} (7)(2)$$

$$A = \frac{1}{2} (14) = 7$$

$$A = 14 + 7$$

$$A = 21 \text{ units}^2$$



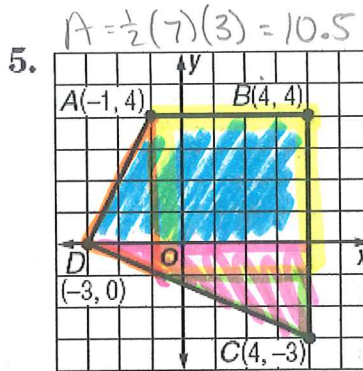
$$A = \pi (1.5)^2$$

$$A = 2.25 \pi$$

$$A = (4)(3)$$

$$A = 12$$

$$A = 12 + 2.25 \pi \text{ units}^2$$



$$A = \frac{1}{2} (7)(3) = 10.5$$

$$A = \frac{1}{2} (4)(5+7)$$

$$A = 24 \text{ units}^2$$

~~$$A = \frac{1}{2} (5)(2)$$~~

~~$$A = 5$$~~

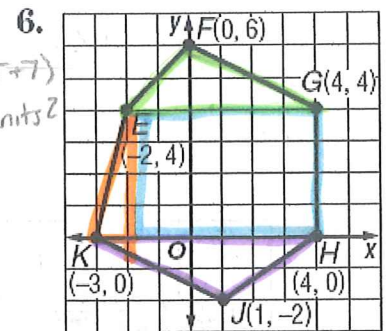
~~$$A = \frac{1}{2} (2)(4)$$~~

~~$$A = 4$$~~

$$A = 34.5 \text{ units}^2$$

~~$$A = 5 + 4 + 25$$~~

$$A = 34.5 \text{ units}^2$$



$$A = \frac{1}{2} (1)(4) = 2$$

$$A = \frac{1}{2} (6)(2) = 6$$

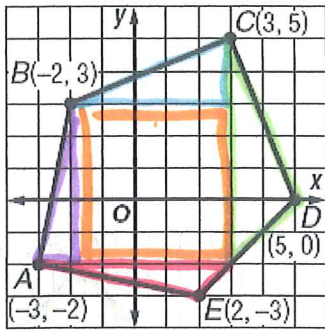
$$A = (4)(6) = 24$$

$$A = \frac{1}{2} (7)(2) = 7$$

$$A = 24 + 2 + 6 + 7$$

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

7. pentagon ABCDE



$$A = \frac{1}{2}(5)(2) = 5$$

$$A = (5)(5) = 25$$

$$A = \frac{1}{2}(4)(1) = 3$$

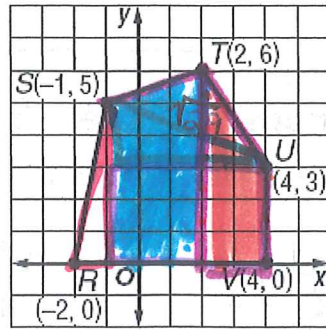
$$A = \frac{1}{2}(7)(2) = 7$$

$$A = \frac{1}{2}(1)(5) = 2.5$$

$$A = 25 + 5 + 3 + 7 + 2.5$$

$$A = 42.5 \text{ units}^2$$

8. pentagon RSTUV



$$A = \frac{1}{2}(1)(5) = 2.5$$

$$A = (5)(3) = 15$$

$$A = \frac{1}{2}(5)(2) = 5$$

$$A = \frac{1}{2}(5+6)(3)$$

$$A = \frac{1}{2}(11)(3)$$

$$A = 16.5$$

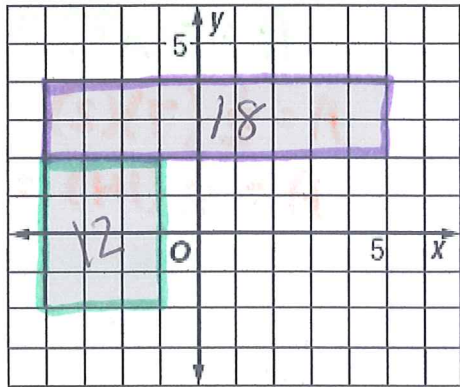
$$A = \frac{1}{2}(5)(2) = 5$$

$$A = \frac{1}{2}(2)(3+6)$$

$$A = 9$$

$$A = 28 \text{ units}^2$$

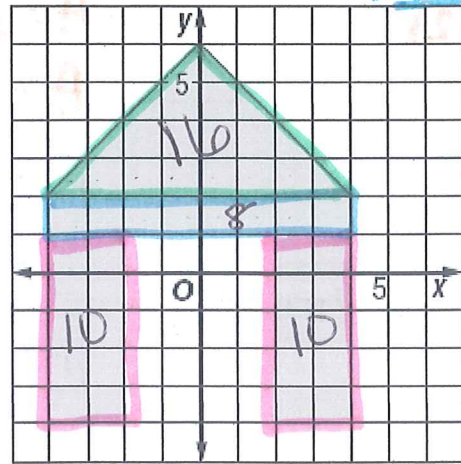
9.



$$A = 18 + 12$$

$$A = 30 \text{ units}^2$$

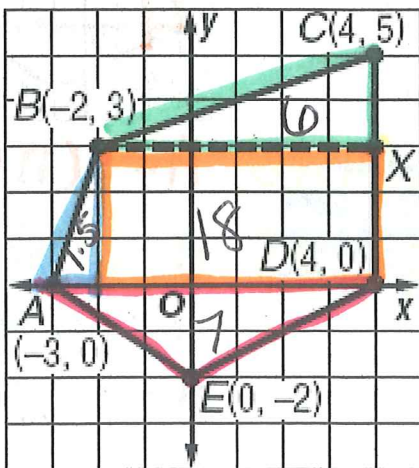
10.



$$A = 10 + 10 + 16 + 8$$

$$A = 44 \text{ units}^2$$

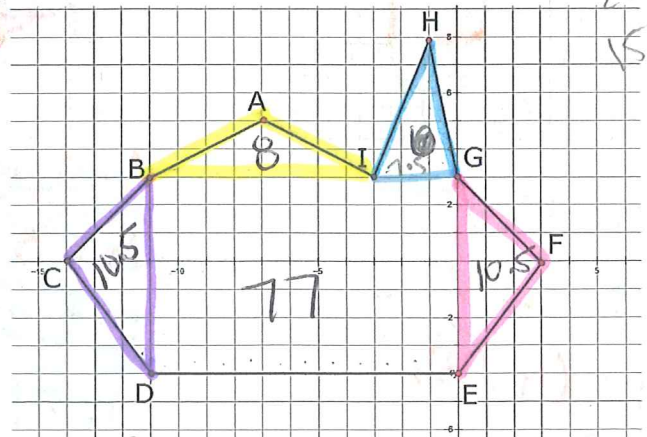
11.



$$A = 18 + 7 + 6 + 1.5$$

$$A = 32.5 \text{ units}^2$$

12.



OH! It's a bunny!

$$A = 77 + 10.5 + 10.5 + 8 + 7.5$$

$$A = 112 \text{ units}^2$$

$$113.5$$

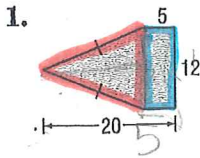
$$\frac{1}{2}(3)(5) = 7.5$$

$$15(\frac{1}{2}) = 7.5$$

11-4 Skills Practice

Areas of Composite Figures

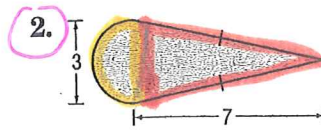
Find the area of each figure. Round to the nearest tenth if necessary.



$$A = 150 \text{ units}^2$$

$$\frac{1}{2}(20)(12) = 120$$

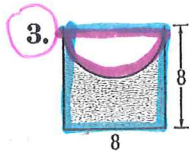
$$(5)(12) = 60$$



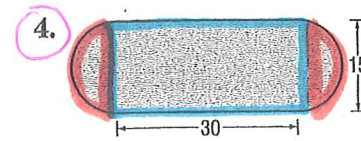
$$\frac{1}{2}(7)(3) = 10.5$$

$$\frac{1}{2}\pi(1.5)^2 = 1.1\pi$$

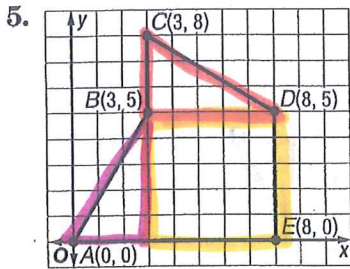
$$A = 10.5 + 1.1\pi \text{ units}^2$$



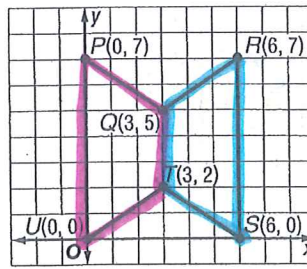
$$A = 64 - 8\pi \text{ units}^2$$



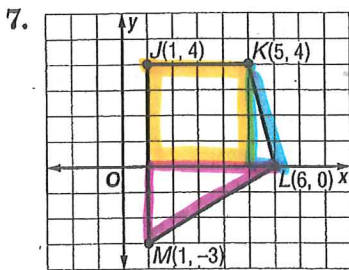
$$A = 450 + 56.3\pi \text{ units}^2$$



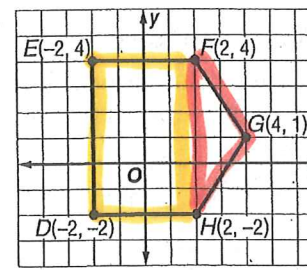
$$A = 40 \text{ units}^2$$



$$A = 30 \text{ units}^2$$



$$A = 25.5 \text{ units}^2$$

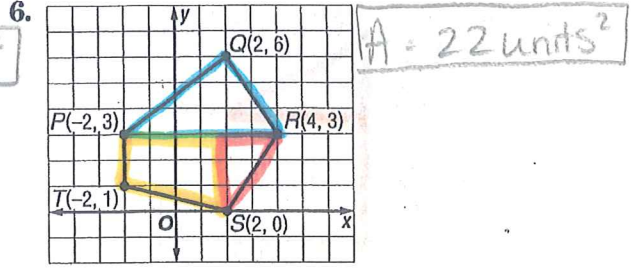
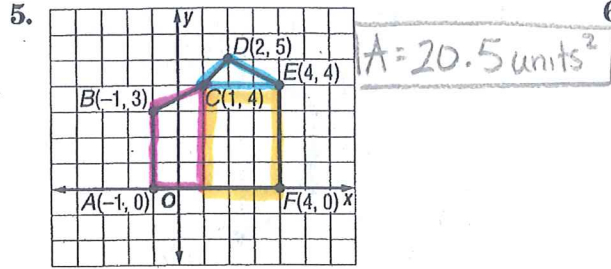
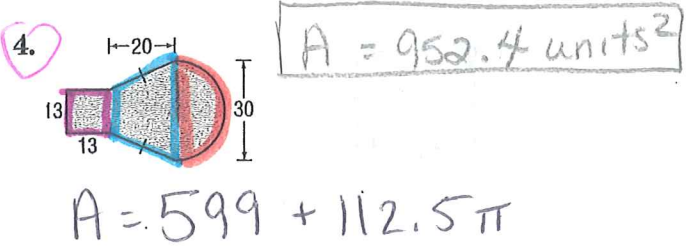
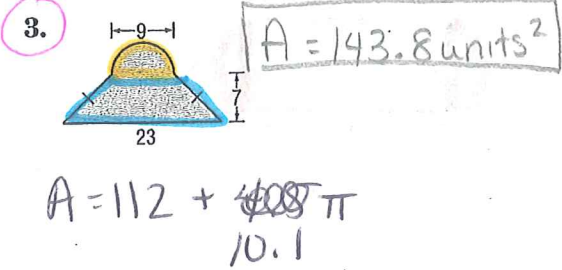
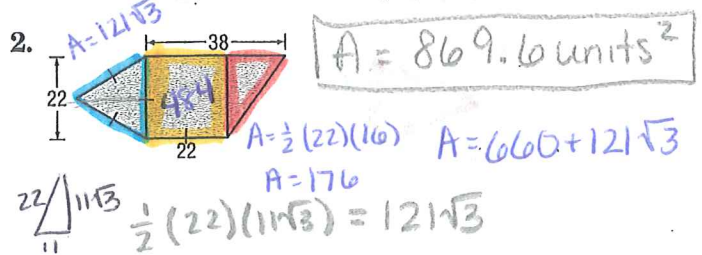
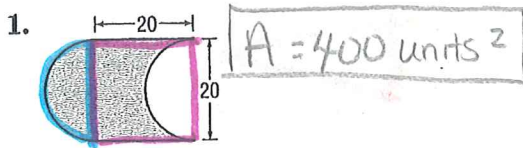


$$A = 30 \text{ units}^2$$

11-4 Practice

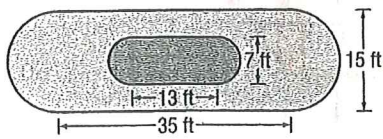
Areas of Composite Figures

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



LANDSCAPING For Exercises 7 and 8, use the following information.

One of the displays at a botanical garden is a koi pond with a walkway around it. The figure shows the dimensions of the pond and the walkway.



7. Find the area of the pond to the nearest tenth.

$(13)(7) = 91$ $\pi(3.5)^2 = 12.25\pi$
 $A = 91 + 12.25\pi \text{ ft}^2$

8. Find the area of the walkway to the nearest tenth.

$(35)(15) = 525$ $(525 + 56.25\pi) - (91 + 12.25\pi)$
 $\pi(7.5)^2 = 56.25\pi$

$A = 434 + 44\pi \text{ ft}^2$