

READY, SET, GO!

Name _____

Period _____

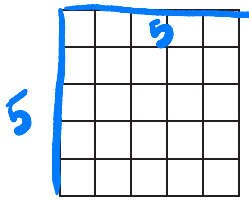
Date _____

READY

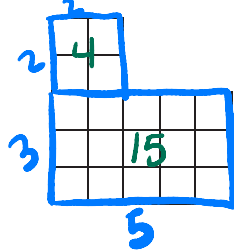
Topic: Area.

Find the area of the given shapes. Are there any short cuts you can find to help calculate the area in an easier way than just counting the boxes?

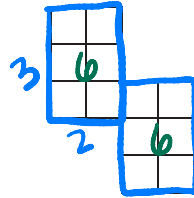
1. 25 un.^2



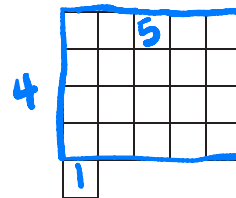
2. 19 un.^2



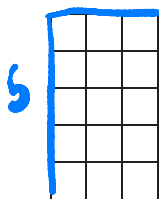
3. 12 un.^2



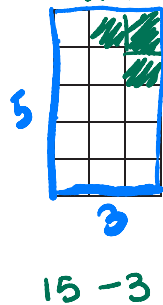
4. 21 un.^2



5. $3 \cdot 5 = 15 \text{ un.}^2$



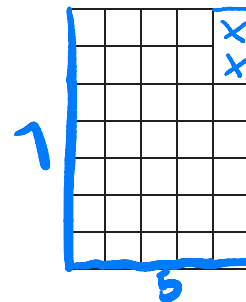
6. 12 un.^2



7. 10 un.^2



8.



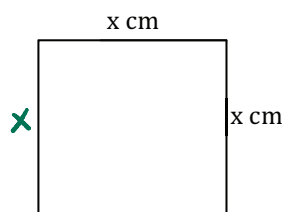
33 un.^2

SET

Topic: Comparing Area and perimeter

Calculate the area and perimeter of each figure below. The area may be written as a product. Include the correct unit on your answer. (Your answers will contain a variable.)

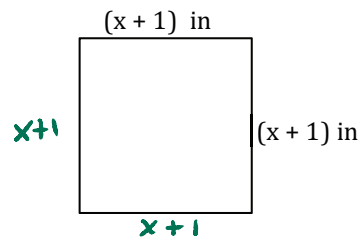
9.



a. Perimeter: $= 4x$

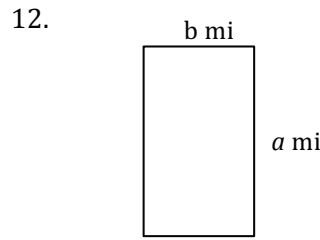
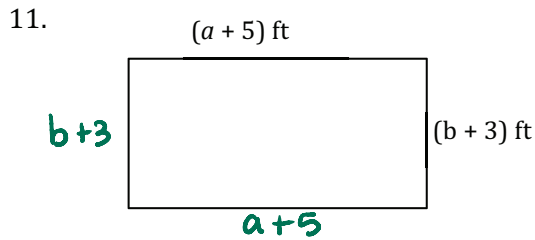
b. Area: $= x^2$

10.

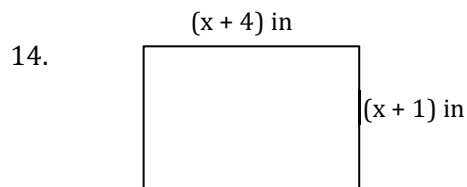
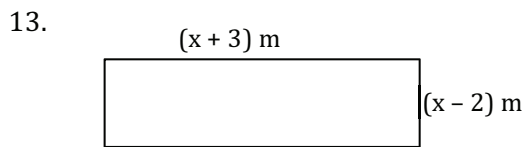


a. Perimeter: $= 4(x+1) = 4x+4$

b. Area: $(x+1)(x+1) = x^2 + x + x + 1 = x^2 + 2x + 1$



a. Perimeter = $2(a+5) + 2(b+3) = 2a + 2b + 16$ ft. a. Perimeter = $2a + 2b$ miles
 b. Area = $(a+5)(b+3) = ab + 3a + 5b + 15$ ft.² b. Area = ab mi.²



a. Perimeter = $2(x+3) + 2(x-2) = 4x + 2$ m a. Perimeter = $2(x+4) + 2(x+1) = 4x + 10$ in.
 b. Area = $(x+3)(x-2) = x^2 + x - 6$ m² b. Area = $(x+4)(x+1) = x^2 + 5x + 4$ in.²

15. Compare the perimeter to the area in each of problems (9-14).

In what way are the numbers and units in the perimeters and areas different?

Perimeter is linear.
 Area is quadratic

GO

Topic: Greatest Common Factor

Find the GCF for the given terms.

16. $15abc^2$ and $25a^3bc$

$5abc$

17. $12x^5y$ and $32x^6y$

$4x^5y$

18. $17pqr$ and $51pqr^3$

$17pqr$

19. $7x^2$ and $21x$

$7x$

20. $6x^2$, $18x$, and -12

6

21. $4x^2$ and $9x$

x

22. $11x^2y^2$, $33x^2y$, and $3xy^2$

$x y$

23. $16a^2b$, $24ab$, and $16b$

$8b$

24. $49s^2t^2$ and $36s^2t^2$

s^2t^2