

**problem set  
32**

1. (a) What do we call the total area of all exposed surfaces of a geometric solid?  
(b) How do you find the lateral surface area of any right solid?
2. (a) The set  $\{1, 2, 3, \dots\}$  represents what set of numbers?  
(b) The set  $\{0, 1, 2, 3, \dots\}$  represents what set of numbers?  
(c) The set  $\{\dots, -3, -2, -1, 0, 1, 2, 3, \dots\}$  represents what set of numbers?
3. Use two unit multipliers to convert 1828 centimeters to feet.
4. Use two unit multipliers to convert 57 square feet to square yards.
5. The circumference of a circle is  $14\pi$  centimeters. Find the diameter of the circle.
6. The sum of twice a number and 17 is 55. Find the number.
7. Find a number such that 16 less than twice the number is 84.
8. What decimal part of 25 is 1.25?

Simplify:

9.  $(-5)^{-2}$

10.  $\frac{1}{(-4)^{-3}}$

11.  $-5^0$

12.  $2\frac{1}{2}$  of what number is 76?

13. If  $g(x) = -5x - 4$ , find  $g(-5)$ .

Solve:

14.  $2\frac{1}{2}x - 5 = 15$

15.  $2\frac{1}{4}k + \frac{1}{4} = \frac{1}{8}$

16.  $0.025x + 0.03 = 1.03$

17.  $3p - 4 - 6 = -2(p - 5)$

18.  $-(x - 3) - 2(x - 4) = 7$

19. (a) What value of  $x$  satisfies the equation  $2x - 1 = 7$ ?  
(b) What value of  $x$  satisfies the equation  $3x + 5 = -7$ ?  
(c) Are the solutions of both equations the same?  
(d) Given your answer to part (c), are the two equations equivalent?

20. Simplify by adding like terms:  $k^2p^{-4}y - 5k^2yp^{-4} + 2yk^2p^{-4} - 5k^2yp^{-4}$

Expand by using the distributive property:

21.  $2x^{-2}y^0(x^2y^0 - 4x^{-6}y^4)$

22.  $(x^2 - 4x^5y^{-5})3p^0x^{-2}$

Evaluate:

23.  $-a^3(a^0 - b)$  if  $a = -2$  and  $b = 4$

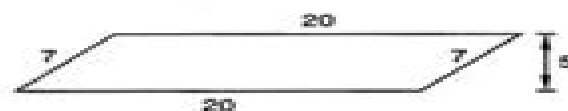
24.  $x(x^0 - y)(y - 2x)$  if  $x = -3$  and  $y = 5$

Simplify:

25.  $-3^2 + (-3)^3 - 3^0 - |-3 - 3|$

26.  $\frac{-3[5(-2 - 1) - (6 - 3)]}{2(-3 - 4)}$

27. Find the area of this parallelogram.  
Dimensions are in meters.



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**Rachel S Tattersall**



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