

Algebra 1A Chapter 2 Practice Test Answers

1.  $-\frac{1}{3}, -0.25, \frac{3}{4}, 1$       2.  $-\frac{20}{3}, -3.4, -3\frac{1}{4}, -3.04$

3. 3.4      4. 0      5.  $2\frac{1}{4}$   
 6. 28      7. -32      8. -5.7      *2.2 + 2.3*

9. you: -4      your friend: -3      You have the best score

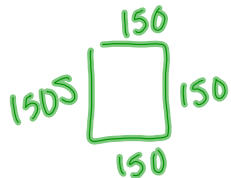
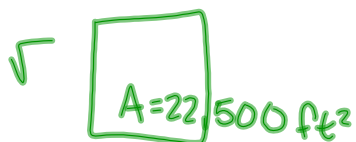
10. The difference is 1 point

11. 7.5      12. 7.5      *2.4*  
 13.  $-\frac{2}{5}$       14. -1.2      15. -14  
 16. -20      17. 77      18.  $20\frac{20}{3}$       *6\frac{2}{3} 6.6*

19.  $7x - 28$       20.  $14x - 8$       21.  $-4x^2 + 32x$   
 22.  $60x + 18$       23.  $-8w - 9$       24.  $3x - 4$       25.  $2x - \frac{2}{4}$

26. Perimeter:  $4w + 26$  units      Area:  $6w + 40$  units<sup>2</sup>      *2.5 2.6*  
 27. 4      28. -12  
 29. -1      30. 15

31. Side Length: 150 ft.      Perimeter: 600 ft.



$$\frac{-16x + 36}{-8}$$

$$\frac{-16x}{-8} \quad \frac{36 \div 4}{-8 \div 4} = \frac{9}{-2}$$

$$2x - \frac{9}{2}$$

Find the sum or difference:

1)  $-\frac{4}{9} + 1\frac{4}{5}$

2)  $-\frac{7}{10} - \left(-\frac{2}{5}\right)$

Evaluate the expression:

$x = 7.1$  and  $y = -2.5$ .

3)  $-y - (1.9 - x)$

4)  $5.3 - (y - x)$

5)  $-3 \cdot \sqrt{x} - 7$  when  $x = 121$

6)  $1.5x - |-y|$  when  $x = -2$  and  $y = -4x$

Find the product or quotient:

7)  $18 \left(-\frac{2}{3}\right) \left(-\frac{1}{5}\right) = \frac{18(-2)(-1)}{1(3)(5)} = \frac{36}{15} \div 3 = \frac{12}{5} = 2\frac{2}{5}$       *2.4*

8)  $\frac{13}{1} \div \left(-4\frac{1}{3}\right) = \frac{13}{1} \times \frac{3}{-13} = \frac{36}{-13} = -3$

9)  $-\frac{4}{7} \div (-2) = -\frac{4}{7} \cdot \frac{1}{2} = \frac{-4}{-14} = \frac{2}{7}$

Simplify the following:

10)  $-6(v + 1) + v = -2(5) - 2(3) + 1 + 5 = -2(5) - 2(3) + 1 + 5 = -10 - 6 + 1 + 5 = -10$

11)  $(s - 3)(-2) + 17s = -2s + 6 + 17s = 15s + 6$

12)  $\frac{-20b \cdot 12}{-5} = \frac{-20b}{-5} \cdot \frac{12}{-5} = 4b \cdot -\frac{12}{5} = -\frac{48b}{5}$

13)  $\frac{36 - 27c}{9}$

$4b - 24$

Find the Area and Perimeter:

$8 - 12w$

$A = l \cdot w = 9(8 - 12w) = 72 - 108w$   
 $P = 9 + 9 + 8 - 12w + 8 - 12w = 34 - 24w$

Word Problem:

The area of a square painting is 3600 square inches. Find the side length of the painting. Then find the perimeter of the painting.