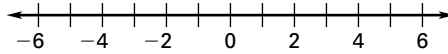


**Chapter Test A**

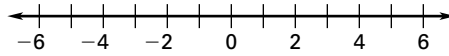
For use after Chapter 2

**Graph the numbers on a number line.**

1. 4.5 and  $-3.4$



2.  $1\frac{1}{3}$  and  $-2\frac{1}{3}$

**Write the numbers in increasing order.**

3. 1.99,  $-3.45$ , 2.01,  $-3.42$ , 0.99    4.  $2\frac{1}{2}$ , 2.15,  $-2.25$ ,  $1\frac{7}{10}$ ,  $1\frac{2}{5}$

**Find the value of the expression.**

5.  $|-4.1|$

6.  $-6.4 + (-3.1)$

7.  $-3 - (-8)$

8.  $-9.1 - |-7.5|$

9.  $11 - (-4) + (-3)$

10.  $-15 + (-10) + 25$

11. A marketing company had a profit of \$5625.14 in January, a loss of \$4250.35 in February, and a profit of \$1475.55 in March. Did the company make a profit during the 3-month period? If so, what was the profit?

**Evaluate the expression for the given value of  $x$ .**

12.  $7 + x + (-3)$  when  $x = 2$

13.  $4x^2 + 2$  when  $x = 2$

14.  $|x + 10|$  when  $x = -12$

15.  $|2x + 1|$  when  $x = \frac{3}{2}$

16.  $\frac{x - 3}{4}$  when  $x = 4$

17.  $\frac{5 - x}{6}$  when  $x = 3$

**Tell whether the matrices can be added or subtracted.**

18.  $\begin{bmatrix} -6 & -3 \\ 0 & 5 \end{bmatrix}, \begin{bmatrix} 9 & -4 & 8 \\ -1 & 12 & 15 \end{bmatrix}$

19.  $\begin{bmatrix} 1 & 4 \\ -1 & -11 \\ -2 & 6 \end{bmatrix}, \begin{bmatrix} 4 & -3 & 5 \\ 0 & -2 & 14 \\ -2 & 11 & 7 \end{bmatrix}$

**Answers**

1. Use number line at left.

2. Use number line at left.

3. \_\_\_\_\_

4. \_\_\_\_\_

5. \_\_\_\_\_

6. \_\_\_\_\_

7. \_\_\_\_\_

8. \_\_\_\_\_

9. \_\_\_\_\_

10. \_\_\_\_\_

11. \_\_\_\_\_

12. \_\_\_\_\_

13. \_\_\_\_\_

14. \_\_\_\_\_

15. \_\_\_\_\_

16. \_\_\_\_\_

17. \_\_\_\_\_

18. \_\_\_\_\_

19. \_\_\_\_\_

**Chapter Test A**

For use after Chapter 2

**Add or subtract the matrices.**

20.  $\begin{bmatrix} 4 & -5 \\ -2 & 3 \end{bmatrix} + \begin{bmatrix} 7 & -6 \\ 1 & -4 \end{bmatrix}$

21.  $\begin{bmatrix} 3 & 7 \\ 1 & -5 \end{bmatrix} - \begin{bmatrix} 4 & 10 \\ 3 & -6 \end{bmatrix}$

**Find the product or quotient.**

22.  $(-14)(-2)$

23.  $-42 \div (-14)$

24.  $(-3)(-5)(4)$

25.  $26 \div (-2)$

**Simplify the expression.**

26.  $(-4)(-x)$

27.  $(-2)(-y)(y)$

28.  $7(x - 5)$

29.  $(3 - x)4$

30.  $3(2 - 4x)$

31.  $-(10 - 7x)$

32.  $(3 + 2y)(-3) + y$

33.  $7x + 5(1 - x)$

34.  $40x \div \frac{1}{8}$

35.  $\frac{c}{3} \div \frac{5}{6}$

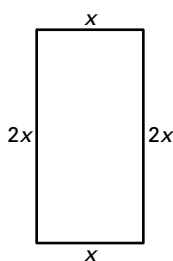
36.  $\frac{8x + 6}{2}$

37.  $\frac{14x + 21}{7}$

38. You have a bag of 56 marbles, 24 of which are blue. What is the probability that you will choose a blue marble?

39. You toss two coins. What is the probability  $P$  that both are tails?

40. Write and simplify an expression for the perimeter of the figure.

**Answers**

20. \_\_\_\_\_

21. \_\_\_\_\_

22. \_\_\_\_\_

23. \_\_\_\_\_

24. \_\_\_\_\_

25. \_\_\_\_\_

26. \_\_\_\_\_

27. \_\_\_\_\_

28. \_\_\_\_\_

29. \_\_\_\_\_

30. \_\_\_\_\_

31. \_\_\_\_\_

32. \_\_\_\_\_

33. \_\_\_\_\_

34. \_\_\_\_\_

35. \_\_\_\_\_

36. \_\_\_\_\_

37. \_\_\_\_\_

38. \_\_\_\_\_

39. \_\_\_\_\_

40. \_\_\_\_\_