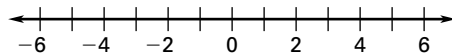


Chapter Test C

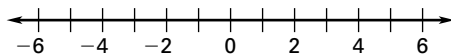
For use after Chapter 2

Graph the numbers on a number line.

1. -2.75 and 6.3



2. $3\frac{6}{10}$ and $-1\frac{8}{9}$

**Write the numbers in increasing order.**

3. $3.6, -1.5, 0.1, -1.1, 1.99$

4. $3\frac{4}{9}, 3.5, -2.15, -2\frac{1}{5}, -2\frac{2}{7}$

Find the value of the expression.

5. $-|-2\frac{2}{3}| + \frac{4}{5}$

6. $-1.7 + (-3.5) + 11.5$

7. $-7.3 - |-4.1| + 4.5$

8. $-|-14.5| + (-2.6) - 7.3$

9. $110.3 + 67.9 + (-49.2)$

10. $|\frac{2}{3} - (-\frac{1}{2}) + \frac{1}{3}|$

11. A sporting goods company had a profit of \$7971.35 in April, a loss of \$3978.65 in May, and a profit of \$2867.45 in June. 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 the variable.

12. $x + 4.2 + (-6.4) + (-1.1)$ when $x = 0.5$

13. $3x^2 - x + 5$ when $x = -3$

14. $|3a - 4| - 5b$ when $a = 2$ and $b = 3$

15. $|6x - 3y|$ when $x = \frac{2}{3}$ and $y = \frac{5}{6}$

16. $\frac{x - 3y}{4}$ when $x = 2$ and $y = \frac{1}{3}$

17. $\frac{a + 4b}{2} + 4$ when $a = -1$ and $b = 3$

Add or subtract the matrices.

$$18. \begin{bmatrix} 4.3 & 5.7 \\ 7.9 & -10.9 \\ -4.1 & 14.8 \end{bmatrix} + \begin{bmatrix} -6.4 & -8.9 \\ 10.5 & 2.7 \\ 5.1 & 9.2 \end{bmatrix}$$

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. Use space at left.

Chapter Test C

For use after Chapter 2

Subtract the matrices.

19.
$$\begin{bmatrix} -6.1 & 3.5 \\ 11.7 & 20.1 \end{bmatrix} - \begin{bmatrix} -8.4 & 7.5 \\ -2.3 & 12.1 \end{bmatrix}$$

Find the values of a , b , c , and d .

20.
$$\begin{bmatrix} 7a & b - 4 \\ 2c - 1 & 8d \end{bmatrix} = \begin{bmatrix} 35 & -3 \\ -5 & 48 \end{bmatrix}$$

Find the product or quotient.

21. $(-\frac{4}{3})(-\frac{6}{7})(\frac{2}{3})(\frac{14}{15})$

22. $-58 \div (-\frac{2}{3})$

23. $(-\frac{3}{4})(-\frac{10}{9})(\frac{4}{3})(-\frac{9}{10})$

24. $-36 \div (-\frac{9}{14})$

Simplify the expression.

25. $(-6c^2)(2c^2 - 3c)$

26. $(-5d - 10d^2)(-6d^3)$

27. $x^3 - (4x + 3x^2)(x^2)$

28. $(-8y^2)(3y - 4) + 6y^2 - 5y^3$

29. $\frac{18m}{-4n} \div \left(-\frac{1}{4m}\right)$

30. $5x^2 \div \frac{2x}{15}$

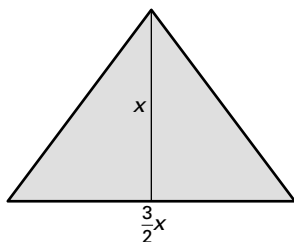
31. $\frac{-16x + 9}{-4}$

32. $\frac{-32 - 4x}{-8}$

33. You randomly choose an integer from 10 to 20. What are the odds that the integer is 15 or less?

34. You toss a six-sided number cube 15 times. For nine of the tosses the number tossed was 4 or more. What is the experimental probability that a number tossed is 4 or more?

35. Write and simplify an expression for the area of the figure.

**Answers**

19. Use space at left.

20. _____

21. _____

22. _____

23. _____

24. _____

25. _____

26. _____

27. _____

28. _____

29. _____

30. _____

31. _____

32. _____

33. _____

34. _____

35. _____