

LESSON
12-1

CHAPTER 12 TEST REVIEW

Solving Two-Step Equations

Solve. SHOW ALL STEPS!

1. $7x + 8 = 36$

2. $-3y - 7 = 2$

3. $4a - 13 = 19$

4. $6a - 4 = -2$

5. $5k + 2 = 6$

6. $9m - 14 = -8$

Solve.

7. $\frac{v}{4} - 3 = 5$

8. $\frac{u}{5} + 3 = 1$

9. $6 + \frac{z}{9} = 9$

10. $-7 + \frac{f}{2} = -1$

11. $9 + \frac{w}{4} = -5$

12. $\frac{e}{7} - 3 = -5$

LESSON
12-4

Inequalities

Write an inequality for each situation.

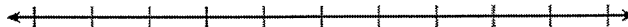
13. The temperature today will be at most 30 °F. _____

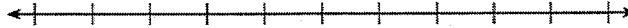
14. The temperature tomorrow will be above 85 °F. _____

15. Yesterday, there was less than 2 inches of rain. _____

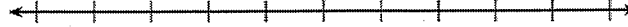
16. Last Monday, there was at least 3 inches of rain. _____

Graph each inequality.

17. $t \leq -2$ 

18. $j > -5$ 

19. $y \leq 0$ 

20. $b < \frac{1}{2}$ 

LESSON**12-5*****Solving Inequalities by Adding or Subtracting***

Solve and graph each answer on a number line.

21. $a + 7 > 2$

22. $h - 9 \leq 3$

23. $v - 8 < -16$

24. $14 + y > -7$

25. $j - 17 \geq -8$

26. $t + 25 \leq 9$

27. Friday's high temperature was 20 °F. Saturday's high temperature was forecast to be no more than 8 °F warmer than Friday's high temperature. According to the forecast, what are the possible high temperatures for Saturday? _____

LESSON**12-6*****Solving Inequalities by Multiplying or Dividing***

Solve.

28. $\frac{t}{-6} < -7$

29. $\frac{s}{-12} \leq -5$

30. $\frac{r}{5.3} \leq 6$

31. $8c < -64$

32. $-12t > 9$

33. $-3s \leq -180$

34. It cost Sophia \$530 to make wind chimes. How many wind chimes must she sell at \$12 apiece to make a profit?

35. It cost the Wilson children \$55 to make lemonade. How many glasses must they sell at 75¢ each to make a profit?

36. Jorge's soccer team is having its annual fund raiser. The team hopes to earn at least three times as much as it did last year. Last year the team earned \$87. What is the team's goal for this year?

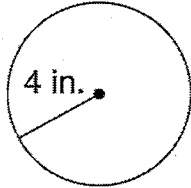
LESSON

9-5

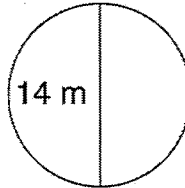
Area of Circles

Find the area and circumference of each circle to the nearest tenth. Use 3.14 for π . Show all steps & use you NeSA sheet!

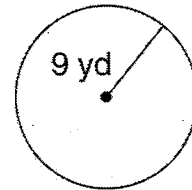
37.



38.

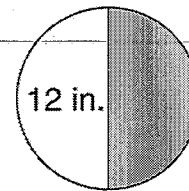


39.



40. A round table has a diameter of 28 inches.
What is the area of the tabletop? Use 3.14 for π .

41. Find the area of the shaded region of the circle. Use 3.14 for π . Round your answer to the nearest tenth.



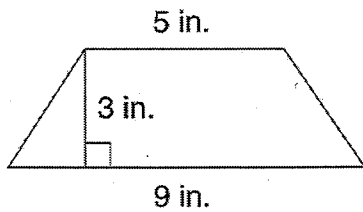
LESSON

9-4

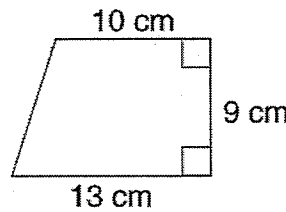
Area of Trapezoids

Find the area of each trapezoid. Show all steps & use your NeSA sheet!

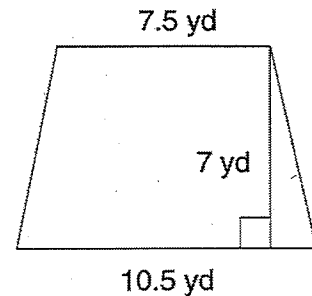
42.



43.



44.



45. The state of Missouri is shaped somewhat like a trapezoid.

What is the approximate area of Missouri?

