Name:	Period: Date:	
	Term з Fínal Practíce Test	Term 3
Simplify the expressions:	Solve and graph each inequality:	:
1. $8 - (18 - 2) - 1 \div 8$	7. 32 < <i>r</i> + 14	
	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
2. $5-6 \cdot 6 - (7+5)$		
	8.	
3. $9 - 12 - 16 \div 4$	$-10 \le \frac{n}{18}$	
	-182 -181 -180 -17	1 9 −178 −177

 $4. \quad \frac{9 \cdot 2 \div 6 + 1}{8 - 10}$

Solve the following:

9.
$$2\frac{2}{5} \cdot \frac{7}{6}$$

12. $\frac{2}{3} - \frac{1}{4}$

Solve each equation for the given variable:

5.
$$-8 = p - 13$$
 10. $\frac{1}{3} \div \frac{3}{4}$

6.
$$416 = -22a$$
 11. $\frac{4}{9} + \frac{1}{6}$

Solve each equation for the given variable:

Solve and graph each inequality:

13.
$$0.4x + 3.9 = 5.78$$

 $0 \le -1 + \frac{x}{4}$
 $(1 + \frac{1}{3}) = 2$
16.
 $0 \le -1 + \frac{x}{4}$
 $(1 + \frac{1}{3}) = \frac{1}{2} + \frac{1}{3} + \frac{1}{3}$

15.
$$-9 = 4n - 9$$

14. $9 + \frac{m}{3} = 2$

18.
$$-90 > 2(6n + 3)$$

 \rightarrow

 $-3r - 4 \ge -64$

19. Use the following dataset:

8, 9, 12, 8, 7, 15, 13, 12, 11, 8, 13	
Mean =	Minimum =
Median =	Maximum =
Mode =	1 st Quartile =
Range =	3 rd Quartile =

20. Use the following dataset:

20, 39, 31, 37, 32, 33, 34, 32	
Mean =	Minimum =
Median =	Maximum =
Mode =	1 st Quartile =
Range =	3 rd Quartile =

21. Given the following Box-and-Whisker Plot, what percent of the data is below 15?



22. Given the following histogram, how many cars are priced between \$25,000 and \$29,999?



23. Write the RATIO 12:28 as a simplified fraction.

Find the unit rates of the following:

25. Todd can bake 120 cookies in 3 hours.

24.
$$\frac{8}{11} = \frac{9.3}{m}$$

26. Ashley can drive 70 miles in 45 minutes.

Use proportions to convert between units:

27. 32 fl oz = ____ pt

28. 8 lbs = ____ oz

Use proportions to solve for the missing side:



32. The scale of a map is 3 inches : 100 miles. Two cities are 7.5 inches apart on the map. Find the actual distance between the cities.

33. A photo is 10 inches tall. Find the height of the resulting photo if the photo is enlarged by a scale factor of 4.

34. Find the total possible combinations when you can choose one of each thing: 8 pairs of shoes, 2 pairs of sunglasses, 7 pairs of pants, 10 hats and 9 scarves.



31. A drawing has a scale of 5 cm : 3 m to the

measurement if the length of the actual

actual figure. Find the drawing

figure is 1.08 meters.

You roll a standard die. Find the following:

35. P(a number greater than 4) =

36. P(3) =

- **37.** P(even) =
- **38.** P(not 2) =

A jar contains 7 green, 19 black, and 13 pink marbles. A marble is drawn at random. Find the following:

39. P(black) =

40. P(not pink) =

A dresser drawer contains one 3 blue, 4 orange, 7 white, and 10 black pairs of socks. You pull out one pair of socks put it back in and then pull out another pair of socks. Find the following:

41. P(black, black) =

42. P(orange, blue) =

A gumball machine contains 21 purple, 9 red, 16 yellow, 10 blue, and 8 green gumballs. You buy one gumball and eat it. You buy a second gumball and put it in your pocket.

43. P(yellow, red) =

44. P(green, green) =

45. 35 is 20% of what number?

46. What percent of 75 is 23?

47. At Chile's your bill comes to \$32.15. You want to leave a tip of 18%. What will your total cost be?

48. A new bike is \$200. If the tax rate is 6.5%, what is the total cost of the bike?

49. An Xbox that normally sells for \$300 is on sale for \$285. What is the percent of discount for the Xbox?

50. Find the percent of change and tell whether it is a percent increase or a percent decrease.

> Original: 45 New: 87