

Name _____ Date _____

Answers

You must show ALL work.

Multiply or divide.

1. $4.5 \div 0.9$

2. $34.1 \div 5.5$

3. $2.7(7.8)$

1. _____

2. _____

3. _____

4. _____

5. _____

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

5. $\frac{4}{5} \div \frac{8}{11}$

6. $\frac{3}{8} \cdot \frac{4}{9}$

6. _____

7. _____

7. You need to buy 5 notebooks for your classes at school. Each notebook costs \$2.79. What is the total cost of 5 notebooks before tax?

8. See left.

Complete the statement using <, >, or =.

8. $\frac{4 \text{ tables}}{3 \text{ groups}}$ _____ $\frac{6 \text{ tables}}{5 \text{ groups}}$

9. $\frac{66 \text{ pages}}{2 \text{ hours}}$ _____ $\frac{99 \text{ pages}}{3 \text{ hours}}$

9. See left.

Answers

10. You have \$50 in your savings account. Each week you deposit \$5 in your account. Write an expression that models the situation.

10. _____

11. _____

12. _____

Solve the equation.

11. $x + 5 = 10$

12. $x - 2 = 6$

13. $x - 1 = 9$

13. _____

14. _____

14. $7 + x = 13$

15. $5x = 65$

16. $\frac{x}{3} = 11$

15. _____

16. _____

17. What is the surface area of a rectangular prism with length 5 centimeters, width 2 centimeters, and height 3 centimeters?

17. _____

Answers

Tell whether the two expressions are equivalent.

18. $5 + 3b$; $3b + 5$ 19. $5(h + 7)$; $5h + 35$ 20. $(2 - c)4$; $2 - 4c$

18. _____

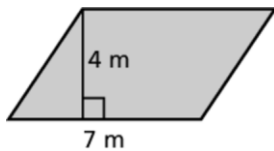
19. _____

20. _____

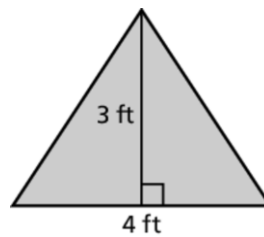
21. _____

Find the area of the figure.

21.



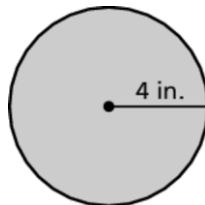
22.



22. _____

23. _____

23. What is the circumference of the circle? Use 3.14 for π .



Name _____

Date _____

Write the decimal as a percent.

24. 0.89

25. 2.37

26. 0.0029

Answers

24. _____

Write the percent as a decimal.

27. 3%

28. 78%

29. 500%

25. _____

26. _____

27. _____

30. In a survey, $\frac{17}{25}$ of the people surveyed have a cat. What percent of the people surveyed have a cat?

28. _____

29. _____

30. _____

Order the numbers from least to greatest.

31. $\frac{5}{8}$, 60%, 0.64

32. 34%, $\frac{4}{15}$, 0.3

33. 0.57, 5.8%, $\frac{14}{25}$

31. _____

32. _____

Estimate the sum or product.

34. $1.52(98)$

35. $2.04(3.97)$

36. $4.42 + 5.91$

33. _____

34. _____

35. _____

36. _____

Find the mean, median, mode(s), and range of the data set.

Answers

37. 5, 9, 12, 3, 4, 5, 7, 14, 13

38. 1, 7, 2, 3, 9, 4, 6, 10

37. _____

39. The following data are the numbers of customers at a coffee shop over a 10-day period.

135, 124, 140, 122, 409, 132, 119, 128, 136, 125

Which measure of center best represents the daily average number of customers at the coffee shop? Explain your reasoning.

38. _____

39. _____

Multiply or divide.

40. 56×18

41. $656 \div 41$

42. $184 \div 23$

40. _____

41. _____

Write the fraction as a decimal.

43. $\frac{13}{20}$

44. $\frac{3}{8}$

42. _____

43. _____

44. _____

Complete the statement using $<$, $>$, or $=$.

45. -7 ___ $|-8|$

Answers

45. _____

Order the values from least to greatest.

46. 4 , $|7|$, -1 , $|-3|$, -4

46. _____

47. The table shows the change in your hair length over a year.

Month	January	February	August	September	December
Change in hair length (inches)	2	-1	3	-4	3

47. _____

a. What is the total change in your hair length at the end of the year?

b. See Left. _____

b. Is your hair longer in January or December? Explain your reasoning.

c. See Left _____

c. When is your hair the longest? Explain your reasoning.

48. _____

Evaluate the expression.

48. $11 - (-2) + 14$

49. $6 - 17 - 4$

49. _____

50. You begin a hike in Death Valley, California, at an elevation of -86 meters. You hike to a point of elevation at 45 meters. What is your change in elevation?

Answers

50. _____

51. You sell T-shirts for a fundraiser. It costs $\$112$ to have the T-shirts made. You make $\$98$ in sales. What is your profit?

51. _____

52. You lose 5 points for every wrong answer in a trivia game. What integer represents the change in your points after answering 8 questions wrong?

52. _____

53. _____

Evaluate the expression.

53. $-5 - 12 \div 3$

54. The table shows the number of yards a football player runs in each quarter of a game. Find the mean number of yards the player runs per quarter.

Quarter	1	2	3	4
Yards	-2	14	-18	-6

54. _____

55. _____

Write the rational number as a decimal.

55. $-4\frac{2}{3}$

56. _____

Write the decimal as a fraction or mixed number in simplest form.

56. 5.22

57. _____

Order the numbers from least to greatest.

57. $-1.6, \frac{5}{2}, -\frac{7}{8}, 0.9, -\frac{6}{5}$

58. _____

58. The table shows the position of each runner relative to when the first place finisher crossed the finish line. Who finished in second place? Who finished in fifth place?

Runner	A	B	C	D	E	F
Meters	-1.264	$-\frac{5}{4}$	-1.015	-0.480	$-\frac{14}{25}$	$-\frac{13}{8}$

59. Before a race, you start $4\frac{5}{8}$ feet behind your friend. At the halfway point, you are $3\frac{2}{3}$ feet ahead of your friend. What is the change in distance between you and your friend from the beginning of the race?

59. _____

Evaluate.

60. $2\frac{1}{2} + \left(-\frac{7}{6}\right) - 1\frac{3}{4}$

60. _____

61. Your friend drinks $\frac{2}{3}$ of a bottle of water. You drink $\frac{5}{7}$ of a bottle of water. Find the difference of the amounts of water left in each bottle.

61. _____

62. _____

63. _____

Multiply or divide. Write fractions in simplest form.

62. $-\frac{8}{9}\left(-\frac{18}{25}\right)$

63. $\frac{7}{13} \div (-2)$

64. $-1.39 \times (-6.8)$

64. _____

65. _____

65. In a game of tug of war, your team changes $-1\frac{3}{10}$ feet in position every 10 seconds. What is your change in position after 30 seconds?