

**Summer Assignment****Determine whether you need an estimate or an exact answer. Then solve.**

1. **SHOPPING** Addison paid \$1.59 for gum and \$1.29 for a package of notebook paper. She gave the cashier a \$5 bill. If the tax was \$0.14, how much change should Addison receive?
2. **DISTANCE** Luis rode his bike 1.2 miles to his friend's house, then 0.7 mile to the convenience store, then 1.9 miles to the library. If he rode the same route back home, about how far did he travel in all?

**Find each sum or difference.**

3.  $20 + (-7)$
4.  $-15 + 6$
5.  $-9 - 22$
6.  $18.4 - (-3.2)$
7.  $23.1 + (-9.81)$
8.  $-5.6 + (-30.7)$

**Find each product or quotient.**

9.  $11(-8)$
10.  $-15(-2)$
11.  $63 \div (-9)$
12.  $-22 \div 11$

**Replace each  $\bullet$  with  $<$ ,  $>$ , or  $=$  to make a true sentence.**

13.  $\frac{7}{20} \bullet \frac{2}{5}$

14.  $0.15 \bullet \frac{1}{8}$

15. Order
- $0.5$
- ,
- $-\frac{1}{7}$
- ,
- $-0.2$
- , and
- $\frac{1}{3}$
- from least to greatest.

**Summer Assignment****Find each sum or difference. Write in simplest form.**

16.  $\frac{5}{6} + \frac{2}{3}$

17.  $\frac{11}{12} - \frac{3}{4}$

18.  $\frac{1}{2} + \frac{4}{9}$

19.  $-\frac{3}{5} + \left(-\frac{1}{5}\right)$

20. If  $\frac{3}{5}$  of the students in Mrs. Hudson's class are girls. What fraction of the class is boys?**Find each product or quotient.**

21.  $2.4(-0.7)$

22.  $-40.5 \div (-8.1)$

23.  $15.9(1.2)$

24.  $-6.5 \div 0.5$

**Name the reciprocal of the number.**

25.  $\frac{4}{11}$

26.  $-\frac{3}{7}$

**Find each product or quotient. Write in simplest form.**

27.  $\frac{2}{21} \div \frac{1}{3}$

28.  $\frac{1}{5} \cdot \frac{3}{20}$

29.  $\frac{6}{25} \div \left(-\frac{3}{5}\right)$

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30.  $\frac{1}{9} \cdot \frac{3}{4}$

31.  $-\frac{2}{21} \div \left(-\frac{2}{15}\right)$

32.  $2\frac{1}{2} \cdot \frac{2}{15}$

**Express each percent as a fraction in simplest form.**

33. 20%

34. 7.5%

35. 1.4%

36. 37%

**Use the percent proportion to find each number.**

37. 18 is what percent of 72?

38. 35 is what percent of 200?

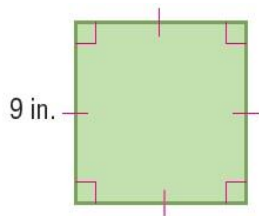
39. 24 is 60% of what number?

40. **TEST SCORES** James answered 14 items correctly on a 16-item quiz. What percent did he answer correctly?

41. **BASKETBALL** Emily made 75% of the baskets that she attempted. If she made 9 baskets, how many attempts did she make?

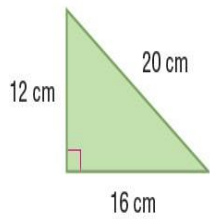
**Find the perimeter and area of each figure.**

42.



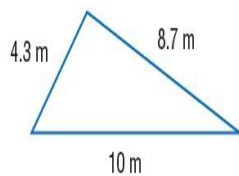
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43.



44. A parallelogram has side lengths of 7 inches and 11 inches. Find the perimeter.

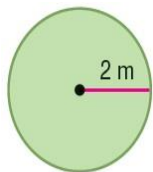
45. **GARDENS** Find the perimeter of the garden.



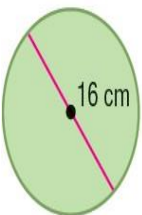
46. The perimeter of a square is 16 centimeters. What is the length of one side?

**Find the circumference and area of each circle. Round to the nearest tenth.**

47.



48.



49. **BIRDS** The floor of a birdcage is a circle with a circumference of about 47.1 inches. What is the diameter of the birdcage floor? Round to the nearest inch.

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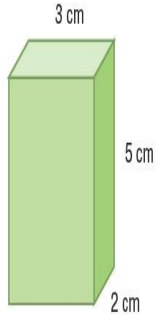
**Find the volume and surface area of each rectangular prism given the measurements below.**

50.  $l = 3$  cm,  $w = 1$  cm,  $h = 3$  cm

51.  $l = 6$  ft,  $w = 2$  ft,  $h = 5$  ft

52.  $l = 5$  in.,  $w = 4$  in.,  $h = 2$  in.

53. Find the volume and surface area of the rectangular prism.



54. A can of soup has a volume of  $20\pi$  cubic inches. The diameter of the can is 4 inches. What is the height of the can?

**One pencil is randomly selected from a case containing 3 red, 4 green, 2 black, and 6 blue pencils. Find each probability.**

55.  $P(\text{green})$

56.  $P(\text{red or blue})$

57. Use a tree diagram to find the sample space for the event *a die is rolled*, and *a coin is tossed*. State the number of possible outcomes.

**A die is rolled. Find each probability.**

58. rolling a multiple of 5

59. rolling a number divisible by 2

60. rolling a number divisible by 3

**One coin is randomly selected from a jar containing 20 pennies, 15 nickels, 3 dimes, and 12 quarters. Find the odds of the outcome. Write in simplest form.**

61. a penny

62. a penny or nickel

63. a dime

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64. a nickel or quarter

65. A coin is tossed 50 times. The results are shown in the table. Find the experimental probability of heads. Write as a fraction in simplest form.

Lands Face-Up	Number of Times
heads	22
tails	28

66. A die is rolled 100 times. The results are shown in the table. Find the experimental probability of rolling a 6. Write as a fraction in simplest form.

Number Rolled	Number of Times
1	17
2	15
3	14
4	18
5	16
6	20