

Student: \_\_\_\_\_  
Date: \_\_\_\_\_

Instructor: Alfredo Alvarez  
Course: Martin-Gay Basic Math

Assignment: MATH123FIESTAB

04-23-19  
04-23-19

11/11/19

1. Add.

$$\begin{array}{r} 51 \\ + 28 \\ \hline \end{array}$$

$$\begin{array}{r} 51 \\ + 28 \\ \hline 79 \end{array}$$

The sum is

Answer: 79

2. Add.

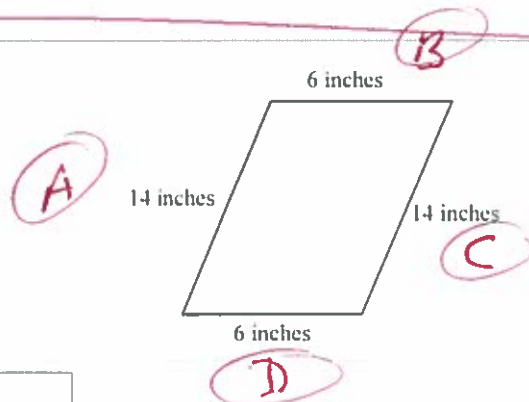
$$\begin{array}{r} 14 \\ 23 \\ + 32 \\ \hline \end{array}$$

$$\begin{array}{r} 14 \\ 23 \\ + 32 \\ \hline 69 \end{array}$$

The sum is

Answer: 69

3. Find the perimeter of the figure.



The perimeter is  (1)

- (1)  cubic inches.
- inches.
- square inches.

Answers 40

(1) inches.

$$P = A + B + C + D$$

$$P = 14 + 6 + 14 + 6$$

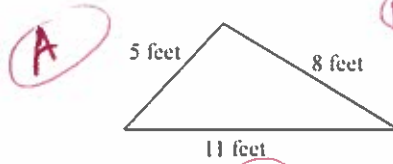
$$P = 20 + 14 + 6$$

$$P = 34 + 6$$

$$\begin{array}{r} 14 \\ + 6 \\ \hline 20 \\ 20 \\ + 14 \\ \hline 34 \\ 34 \\ + 6 \\ \hline 40 \end{array}$$

$$P = 40$$

4. Find the perimeter of the figure.



The perimeter is  (1)

(Type a whole number.)

- (1)  square feet.
- cubic feet.
- feet.

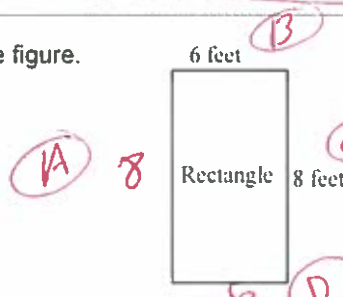
Answers 24

(1) feet.

$$\begin{array}{r} 5 \\ + 8 \\ \hline 13 \\ + 11 \\ \hline 24 \end{array}$$

$P = A + B + C$   
 $P = 5 + 8 + 11$   
 $P = 13 + 11$   
 $P = 24$

5. Find the perimeter of the figure.



The perimeter is  (1)

(Type a whole number.)

- (1)  feet.
- square feet.
- cubic feet.

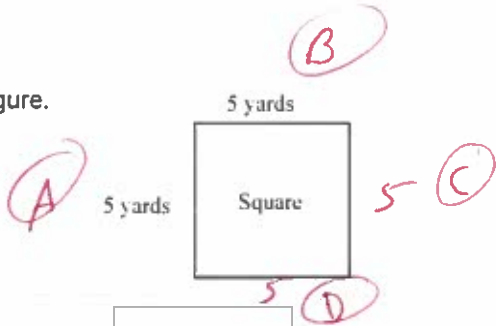
Answers 28

(1) feet.

$$\begin{array}{r} P = A + B + C + D \\ P = 8 + 6 + 8 + 6 \\ P = 14 + 8 + 6 \\ P = 22 + 6 \\ P = 28 \end{array}$$

$$\begin{array}{r} 8 \\ + 6 \\ \hline 14 \\ + 8 \\ \hline 22 \\ + 6 \\ \hline 28 \end{array}$$

6. Find the perimeter of the figure.



$$P = A + B + C + D$$

$$P = 5 + 5 + 5 + 5$$

$$P = 10 + 5 + 5$$

$$P = 15 + 5$$

$$\begin{array}{r} 5 \\ + 5 \\ \hline 10 \\ + 5 \\ \hline 15 \\ + 5 \\ \hline 20 \end{array}$$

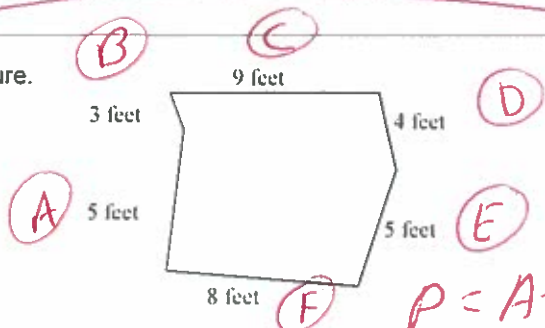
The perimeter is  (1)

- (1)  yards.
- cubic yards.
- square yards.

Answers 20

(1) yards.

7. Find the perimeter of the figure.



$$P = A + B + C + D + E + F$$

$$P = 5 + 3 + 9 + 4 + 5 + 8$$

$$P = 8 + 9 + 4 + 5 + 8$$

$$P = 17 + 4 + 5 + 8$$

$$P = 21 + 5 + 8$$

$$P = 26 + 8$$

The perimeter is  (1)

- (1)  cubic feet.
- square feet.
- feet.

$$\begin{array}{r} 5 \\ + 3 \\ \hline 8 \end{array}$$

Answers 34

(1) feet.  $\begin{array}{r} 8 \\ + 9 \\ \hline 17 \end{array}$

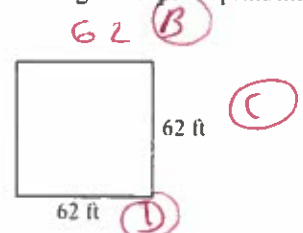
$P = 34$

$$\begin{array}{r} 17 \\ + 4 \\ \hline 21 \\ + 5 \\ \hline 26 \\ + 8 \\ \hline 34 \end{array}$$

8. A permanent game board is made of granite. Find the perimeter of the square playing board.

$$P = A + B + C + D$$

$$P = 62 + 62 + 62 + 62$$



$$P = 124 + 62 + 62$$

$$P = 186 + 62$$

$$P = 248$$

$$\begin{array}{r} 62 \\ + 62 \\ \hline 124 \\ + 62 \\ \hline 186 \\ + 62 \\ \hline 248 \end{array}$$

The perimeter is  (1)

- (1)  cubic feet.
- square feet.
- feet.

Answers 248  
(1) feet.

9. Find the difference.

$$10 - 10$$

10 - 10 =

$$10 - 10 = 0$$

Answer: 0

10. Subtract.

$$\begin{array}{r} 98 \\ - 47 \\ \hline \end{array}$$

The difference is .

$$\begin{array}{r} 98 \\ - 47 \\ \hline 51 \end{array}$$

Answer: 51

11. Subtract.

$$\begin{array}{r} 61 \\ - 32 \\ \hline \end{array}$$

The difference is .

$$\begin{array}{r} 61 \\ - 32 \\ \hline 29 \end{array}$$

Answer: 29

12. Subtract. Check by adding.

$$\begin{array}{r} 90 \\ -79 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \quad 10 \\ 90 \\ -79 \\ \hline \end{array}$$

The difference is

$$\textcircled{11}$$

Answer: 11

13. Evelyn Abrams is reading a 735-page book. If she has just finished reading page 660, how many more pages must she read to finish the book?

pages

$$\begin{array}{r} 735 \\ -660 \\ \hline \end{array}$$

Answer: 75

14. Subtract.

$$43 - 37$$

The answer is

$$\begin{array}{r} 7 \quad 13 \\ 43 \\ -37 \\ \hline \end{array}$$

$$\textcircled{6}$$

Answer: 6

15. Round 865 to the nearest ten.

865 rounded to the nearest ten is

$$865 =$$

↑

since 5 ≥ 5  
round up

$$\textcircled{870 =}$$

Answer: 870

16. Round 3,277 to the nearest hundred.

The number 3,277 rounded to the nearest hundred is

$$3277$$

↑

since 7 ≥ 5  
round up

$$\textcircled{3300}$$

Answer: 3,300

17. Round 695 to the nearest ten.

695 rounded to the nearest ten is

$$695 =$$

↑

since 5 ≥ 5  
round up

$$\textcircled{700 =}$$

Answer: 700

18. Round 46,278 to the nearest thousand.

46,278 rounded to the nearest thousand is

$$46278 =$$

↑

since 2 < 5  
do not round up

$$\textcircled{46000 =}$$

Answer: 46,000

19. Use the distributive property to rewrite each expression.

2(3 + 9)

2(3 + 9) =

(Type an expression. Do not simplify.)

$$2(3 + 9) =$$

$$2 \cdot 3 + 2 \cdot 9 =$$

Answer: 2 · 3 + 2 · 9

20. Multiply.

$$\begin{array}{r} 46 \\ \times 5 \\ \hline \end{array}$$

$$\begin{array}{r} 46 \\ \times 5 \\ \hline \end{array}$$

$$\begin{array}{r} 46 \\ \times 5 \\ \hline 230 \end{array}$$

Answer: 230

21. Multiply.

$$\begin{array}{r} 466 \\ \times 7 \\ \hline \end{array}$$

$$\begin{array}{r} 466 \\ \times 7 \\ \hline \end{array}$$

$$\begin{array}{r} 466 \\ \times 7 \\ \hline 3262 \end{array}$$

Answer: 3262

22. Multiply.

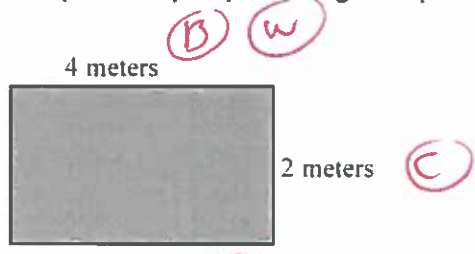
$$\begin{array}{r} 28 \\ \times 36 \\ \hline \end{array}$$

The product is .

$$\begin{array}{r} 28 \\ \times 36 \\ \hline 168 \\ 84 \\ \hline 1008 \end{array}$$

Answer: 1008

23. Find the area and the perimeter of the rectangle shown to the right.



The area of the rectangle is  (1)

The perimeter of the rectangle is  (2)

- (1)  cubic meters.      (2)  cubic meters.
- square meters.       square meters.
- meters.                       meters.

Answers 8

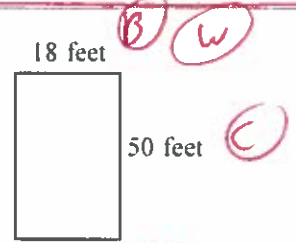
- (1) square meters.
- 12
- (2) meters.

4 (D)

$A = L \cdot W$   
 $A = (2)(4)$   
 $A = 8$

$P = A + B + C + D$   
 $P = 2 + 4 + 2 + 4$   
 $P = 6 + 2 + 4$   
 $P = 8 + 4$   
 $P = 12$

24. Find the area and the perimeter of the rectangle shown to the right.



The area of the rectangle is  (1)

The perimeter of the rectangle is  (2)

- (1)  cubic feet.      (2)  square feet.
- feet.                       cubic feet.
- square feet.       feet.

Answers 900

- (1) square feet.
- 136
- (2) feet.

18 (D)

$A = L \cdot W$   
 $A = (50)(18)$   
 $A = 900$

$P = A + B + C + D$   
 $P = 50 + 18 + 50 + 18$   
 $P = 68 + 50 + 18$   
 $P = 118 + 18$   
 $P = 136$

Handwritten multiplication:  

$$\begin{array}{r} 18 \\ \times 50 \\ \hline 00 \\ 90 \\ \hline 900 \end{array}$$

Handwritten addition:  

$$\begin{array}{r} 50 \\ + 18 \\ \hline 68 \\ + 50 \\ \hline 118 \\ + 18 \\ \hline 136 \end{array}$$



25. Find the following quotient.

$42 \div 6$

$\frac{42}{6} = 7$

Select the correct choice below and, if necessary, fill in the answer box to complete your choice.

- A.  $42 \div 6 =$  \_\_\_\_\_ (Simplify your answer.)
- B. The answer is undefined.

Answer: A.  $42 \div 6 =$   (Simplify your answer.)

26. Find the following quotient.

$65 \div 5$

$\frac{65}{5} = 13$

$$\begin{array}{r} 13 \\ 5 \overline{)65} \\ \underline{-(5)} \phantom{0} \\ 15 \\ \underline{-(15)} \\ 0 \end{array}$$

Select the correct choice below and, if necessary, fill in the answer box to complete your choice.

- A.  $65 \div 5 =$  \_\_\_\_\_ (Simplify your answer.)
- B. The answer is undefined.

Answer: A.  $65 \div 5 =$   (Simplify your answer.)

27. Find the following quotient.

$0 \div 6$

$\frac{0}{6} = 0$

$$\begin{array}{r} 0 \\ 6 \overline{)0} \\ \underline{-(0)} \\ 0 \end{array}$$

Select the correct choice below and, if necessary, fill in the answer box to complete your choice.

- A.  $0 \div 6 =$  \_\_\_\_\_ (Simplify your answer.)
- B. The quotient is undefined.

Answer: A.  $0 \div 6 =$   (Simplify your answer.)

28. Find the following quotient.

$33 \div 1$

$\frac{33}{1} = 33$

$$\begin{array}{r} 33 \\ 1 \overline{)33} \\ \underline{-(3)} \phantom{0} \\ 3 \\ \underline{-(3)} \\ 0 \end{array}$$

Select the correct choice below and, if necessary, fill in the answer box to complete your choice.

- A.  $33 \div 1 =$  \_\_\_\_\_ (Simplify your answer.)
- B. The answer is undefined.

Answer: A.  $33 \div 1 =$   (Simplify your answer.)



29. Find the following quotient.

$$\frac{47}{47}$$

$$\frac{47}{47} =$$

$$1 =$$

$$\begin{array}{r} 47 \overline{)47} \\ \underline{(47)} \\ 0 \\ \text{rem} \end{array}$$

Select the correct choice below and, if necessary, fill in the answer box to complete your choice.

- A.  $\frac{47}{47} =$  \_\_\_\_\_ (Simplify your answer.)
- B. The answer is undefined.

Answer: A.  $\frac{47}{47} =$   (Simplify your answer.)

30. Find the quotient.

$$\frac{35}{5}$$

$$\frac{35}{5} =$$

$$\begin{array}{r} 5 \overline{)35} \\ \underline{(35)} \\ 0 \\ \text{rem} \end{array}$$

Select the correct choice below and fill in any answer boxes in your choice.

- A.  $\frac{35}{5} =$  \_\_\_\_\_
- B. The answer is undefined.

Answer: A.  $\frac{35}{5} =$

31. Find the following quotient.

$$35 \div 7$$

$$\frac{35}{7} =$$

$$\begin{array}{r} 7 \overline{)35} \\ \underline{(35)} \\ 0 \\ \text{rem} \end{array}$$

Select the correct choice below and, if necessary, fill in the answer box to complete your choice.

- A.  $35 \div 7 =$  \_\_\_\_\_ (Simplify your answer.)
- B. The answer is undefined.

Answer: A.  $35 \div 7 =$   (Simplify your answer.)

32. Divide the following and then check by multiplying.

$$2 \overline{)48}$$

Select the correct choice below and, if necessary, fill in the answer box to complete your choice.

- A. The quotient does not have a remainder. The quotient is \_\_\_\_\_.
- B. The quotient has a remainder not equal to 0. The quotient is \_\_\_\_\_ R \_\_\_\_\_.
- C. The quotient is undefined.

$$\begin{array}{r}
 24 \\
 2 \overline{)48} \\
 \underline{-(4)} \\
 8 \\
 \underline{-(8)} \\
 0 \text{ rem}
 \end{array}$$

Answer: A. The quotient does not have a remainder. The quotient is .

33. Divide the following and then check by multiplying.

$$32 \div 8$$

Select the correct choice below and, if necessary, fill in the answer box to complete your choice.

- A. The quotient does not have a remainder. The quotient is \_\_\_\_\_.
- B. The quotient has a remainder not equal to 0. The quotient is \_\_\_\_\_ R \_\_\_\_\_.
- C. The quotient is undefined.

$$\begin{array}{r}
 32 \\
 8 \overline{)32} \\
 \underline{-(32)} \\
 0 \text{ rem}
 \end{array}$$

Answer: A. The quotient does not have a remainder. The quotient is .

34. Divide the following and then check by multiplying.

$$8 \overline{)273}$$

Select the correct choice below and, if necessary, fill in the answer box to complete your choice.

- A. The quotient does not have a remainder. The quotient is \_\_\_\_\_.
- B. The quotient has a remainder not equal to 0. The quotient is \_\_\_\_\_ R \_\_\_\_\_.
- C. The quotient is undefined.

$$\begin{array}{r}
 34 \\
 8 \overline{)273} \\
 \underline{-(24)} \\
 33 \\
 \underline{-(32)} \\
 1 \text{ rem}
 \end{array}$$

OR  $34 \frac{1}{8}$

Answer: B. The quotient has a remainder not equal to 0. The quotient is  R .

35. What is the total of 32 and 3?

The total of 32 and 3 is

Answer: 35

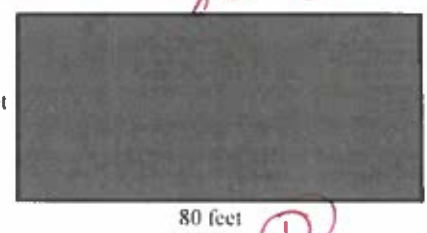
$$\begin{array}{r}
 32 \\
 + 3 \\
 \hline
 35
 \end{array}$$

36. 60 times 40 is what number?  
 60 times 40 is   
 Answer: 2400

$$\begin{array}{r} 60 \\ \times 40 \\ \hline 2400 \end{array}$$

37. A vacant lot in the shape of a rectangle measures 80 feet by 20 feet.  
 a. What is the perimeter of the lot?  
 b. What is the area of the lot?

(L) (A)



a. The perimeter of the lot is  (1)   
 b. The area of the lot is  (2)   
 (1)  square feet.    (2)  feet.  
 feet.                       cubic feet.  
 cubic feet.                 square feet.

$$P = A + B + C + D$$

$$P = 20 + 80 + 20 + 80$$

$$P = 100 + 20 + 80$$

$$P = 120 + 80$$

$$P = 200$$

$$A = AW$$

$$A = (20)(80)$$

$$A = 1600$$

$$\begin{array}{r} 20 \\ \times 80 \\ \hline 1600 \end{array}$$

Answers 200  
 (1) feet.  
 1600  
 (2) square feet.

38. There are 24 hours in a day. How many hours are in 7 days?  
 There are  hours in 7 days.

$$\begin{array}{r} 24 \\ \times 7 \\ \hline 168 \end{array}$$

Answer: 168

39. The average weekly pay for a records clerk is \$320. If the clerk works 40 hours in one week, what is his or her hourly pay?  
 The hourly pay is \$  an hour.

$$40 \overline{) 320}$$

$$\begin{array}{r} 8 \\ 40 \overline{) 320} \\ \underline{-(320)} \\ 0 \text{ rem} \end{array}$$

Answer: 8

40. Five ounces of canned fish in oil has 335 calories. How many calories does 1 ounce have?  
 One ounce of canned fish in oil will have  calories. (Simplify your answer.)

$$5 \overline{) 335}$$

$$\begin{array}{r} 67 \\ 5 \overline{) 335} \\ \underline{-(30)} \\ 35 \\ \underline{-(35)} \\ 0 \text{ rem} \end{array}$$

Answer: 67

41. Find the value of the expression.

$12^2$

$12^2 = \boxed{\phantom{000}}$

Answer: 144

$$12^2 = 12 \cdot 12 = 144 =$$

$$\begin{array}{r} 12 \\ \times 12 \\ \hline 24 \\ 12\phantom{0} \\ \hline 144 \end{array}$$

42. Find the square root.

$\sqrt{25}$

Answer: 5

$$\sqrt{25} = 5 =$$

$\sqrt{25} = \boxed{\phantom{00}}$

$$5^2 = 5 \cdot 5 = 25 =$$

43. Simplify.

$12 + 8 \cdot 4$

Select the correct choice below and, if necessary, fill in the answer box to complete your choice.

- A.  $12 + 8 \cdot 4 =$  \_\_\_\_\_
- B. The expression is undefined.

Answer: A.  $12 + 8 \cdot 4 =$

PEMDAS

$$\begin{array}{r} 12 \\ + 32 \\ \hline 44 \end{array}$$

$$12 + 8 \cdot 4 = 12 + 32 = 44 =$$

44. Simplify.

$16 + 8 - 1$

Select the correct choice below and, if necessary, fill in the answer box to complete your choice.

- A.  $16 + 8 - 1 =$  \_\_\_\_\_
- B. The expression is undefined.

Answer: A.  $16 + 8 - 1 =$

PEMDAS

$$16 \div 8 - 1 = 2 - 1 = 1 =$$

45. Simplify.

$7 \cdot 5 + 4 \cdot 5$

Select the correct choice below and, if necessary, fill in the answer box to complete your choice.

- A.  $7 \cdot 5 + 4 \cdot 5 =$  \_\_\_\_\_
- B. The expression is undefined.

Answer: A.  $7 \cdot 5 + 4 \cdot 5 =$

PEMDAS

$$7 \cdot 5 + 4 \cdot 5 = 35 + 4 \cdot 5 = 35 + 20 = 55 =$$

46. Simplify.

$(5 + 6) \cdot (9 - 6)$

*PEMDAS*

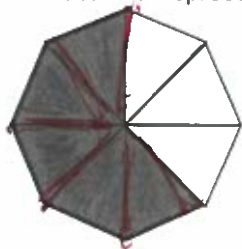
$(5+6) \cdot (9-6) =$   
 $(11) \cdot (9-6) =$   
 $(11) \cdot (3) =$   
 $11 \cdot 3 =$   
 $33 =$

Select the correct choice below and, if necessary, fill in the answer box to complete your choice.

- A.  $(5 + 6) \cdot (9 - 6) =$  \_\_\_\_\_
- B. The expression is undefined.

Answer: A.  $(5 + 6) \cdot (9 - 6) =$

47. Write a fraction to represent the shaded part of the figure.

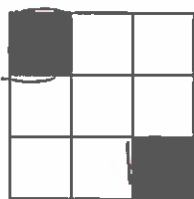


$\frac{5}{8} =$

The fraction representing the shaded part is .

Answer:  $\frac{5}{8}$

48. Write a fraction to represent the shaded region of the figure. The fraction that represents the shaded region of this figure is .



$\frac{2}{9} =$

Answer:  $\frac{2}{9}$

49. Write a fraction to represent the shaded region of the figure.

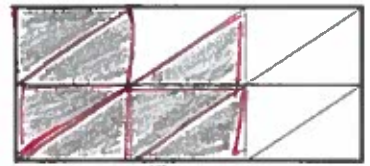


$\frac{3}{7} =$

A fraction which represents the figure is .

Answer:  $\frac{3}{7}$

50. Type a fraction to represent the shaded part.



$$\frac{7}{12} =$$

What is the fraction represented by the shaded part?

(Do not simplify.)

Answer:  $\frac{7}{12}$

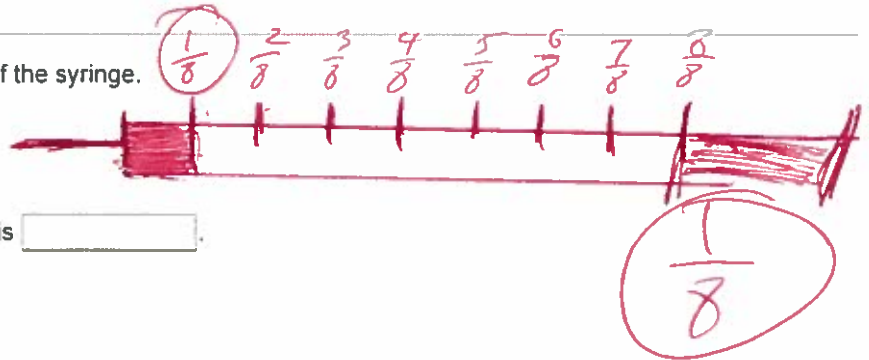
51. Write a fraction to represent the shaded region of the figure. The fraction that represents the shaded region of this figure is .



$$\frac{4}{9} =$$

Answer:  $\frac{4}{9}$

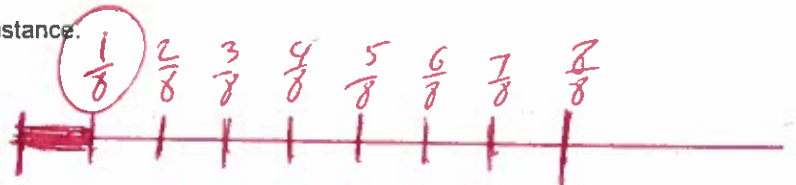
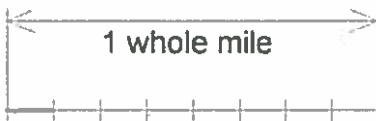
52. Write a fraction to represent the shaded part of the syringe.



The fraction represented by the shaded parts is .

Answer:  $\frac{1}{8}$

53. Write a fraction to represent the shaded part of the distance.



The fraction that represents the shaded part is .

Answer:  $\frac{1}{8}$

$$\frac{1}{8}$$

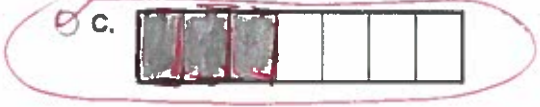
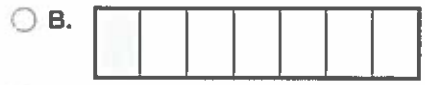


54. Draw and shade a part of a diagram to represent the fraction.

$\frac{3}{7}$  of a diagram

Which shaded region below represents  $\frac{3}{7}$ ?

$\frac{3}{7}$



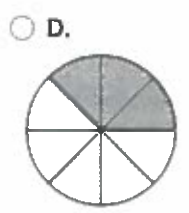
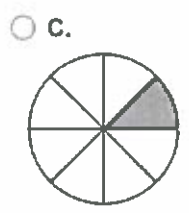
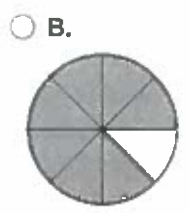
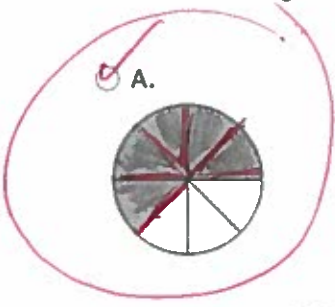
Answer:  C.

55. Draw and shade a part of a figure to represent the fraction.

$\frac{5}{8}$  of a figure

Which shaded region below represents  $\frac{5}{8}$ ?

$\frac{5}{8}$



Answer:  A.



56. Each of the objects shown to the right is divided into equal sections and part of each object is shaded. The shaded part is a fraction of the whole object.

Choose the correct answer below.

Which object represents the fraction  $\frac{5}{8}$ ?

A.



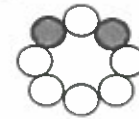
B.



C.



D.

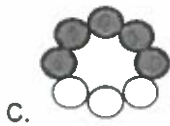


E.

None of the above.

$\frac{5}{8}$

Answer:



57. Each of the figures shown to the right is divided into equal sections, and part of each figure is shaded. The shaded part is a fraction of the whole figure.

Choose the correct answer below.

Which figure represents the fraction  $\frac{5}{5}$ ?

A.



B.



C.



D.



E. None of the above.

$\frac{5}{5} =$

Answer:



58. In an American Sign Language (A.S.L) class of 22 students, 17 are hearing impaired. What fraction of the students are hearing impaired?

The fraction of the students that are hearing impaired is .

Answer:  $\frac{17}{22}$

$\frac{17}{22} =$

59. Of 94 cars making up a freight train, 17 are boxcars.

- A. How many of the cars are *not* boxcars?
- B. What fraction of the cars are *not* boxcars?

A. The number of cars that are *not* boxcars is .

B. The fraction of the cars that are *not* boxcars is .

$$\frac{17}{94}$$

Answers 77

$$\frac{77}{94}$$

60. The Atlantic hurricane season of this year rewrote the record books. There were 27 tropical storms, 14 of which turned into hurricanes. What fraction of this season's Atlantic tropical storms escalated to hurricanes?

The fraction of tropical storms which escalated to hurricanes is .

$$\frac{14}{27}$$

Answer:  $\frac{14}{27}$

61. There are 31 days in the month of December. What fraction of the month does 17 days represent?

17 days represents  of the month of December.

$$\frac{17}{31}$$

Answer:  $\frac{17}{31}$

- 62. Represent the shaded part of the group of circles with
  - A. an improper fraction and
  - B. a mixed number.



- A. The improper fraction which represents the shaded area of the figure group is .
- B. The mixed number which represents the shaded area of the figure group is .

$$\frac{5}{4}$$

Answers  $\frac{5}{4}$   
 $1\frac{1}{4}$

$$4 \overline{) 5} \begin{array}{r} 1 \\ - (4) \\ \hline 1 \text{ rem} \end{array}$$

OR

$$1\frac{1}{4}$$

63. Represent the shaded part of the group of triangles with  
A. an improper fraction and  
B. a mixed number.



$\frac{5}{4}$

OR

$4 \overline{) 5}$   
- (4)  
-----  
1 rem

A. The improper fraction that represents the shaded area of the figure group is

B. The mixed number that represents the shaded area of the figure group is

Answers  $\frac{5}{4}$   
 $1 \frac{1}{4}$

OR ~~scribble~~  
 $1 \frac{1}{4}$

64. Write the shaded area in the figure as a) an improper fraction and b) a mixed number.



a) The shaded area as an improper fraction is

$\frac{15}{4}$

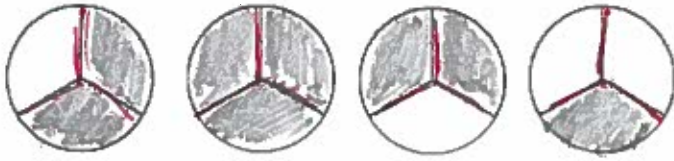
b) The shaded area as a mixed number is

Answers  $\frac{15}{4}$   
 $3 \frac{3}{4}$

OR  
 $3 \frac{3}{4}$

$4 \overline{) 15}$   
- (12)  
-----  
3 rem

65. Represent the shaded area in the figure group with  
 A. an improper fraction and  
 B. a mixed number.



$$\frac{8}{3} =$$

$$\begin{array}{r} 2 \\ 3 \overline{) 8} \\ \underline{-(6)} \\ 2 \text{ rem} \end{array}$$

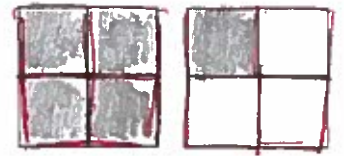
A. The improper fraction is . (Type an improper fraction. Do not reduce.)

B. The mixed number is . (Type a mixed number. Do not reduce.)

Answers  $\frac{8}{3}$   
 $2\frac{2}{3}$

OR  $2\frac{2}{3}$

66. Write the shaded area in the figure group as (a) a mixed number and (b) an improper fraction.



a. Write the shaded area as a mixed number.

(Type a mixed number. Do not simplify.)

b. Write the shaded area as an improper fraction.

(Type an improper fraction. Do not simplify.)

Answers  $1\frac{1}{4}$   
 $\frac{5}{4}$

$$\frac{5}{4} =$$

$$\begin{array}{r} 1 \\ 4 \overline{) 5} \\ \underline{-(4)} \\ 1 \text{ rem} \end{array}$$

OR  $1\frac{1}{4}$

67. Represent the shaded part of the group of figures with (a) an improper fraction and (b) a mixed number.



a. Write the shaded area as an improper fraction.

b. Write the shaded area as a mixed number.

OR

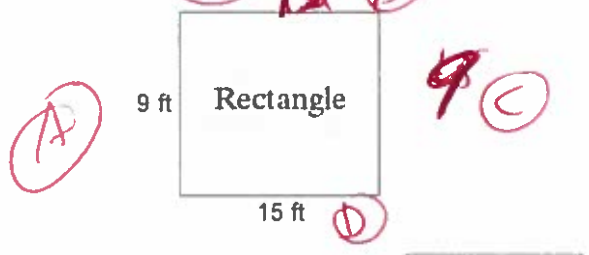
$\frac{7}{2}$

$3\frac{1}{2}$

$2\overline{)7}$   
 $-(6)$   
 $\hline 1 \text{ rem}$

Answers  $\frac{7}{2}$   
 $3\frac{1}{2}$

68. Find the perimeter of the following figure.



Perimeter =  (1)

- (1)  ft
- sq. ft

Answers 48  
(1) ft

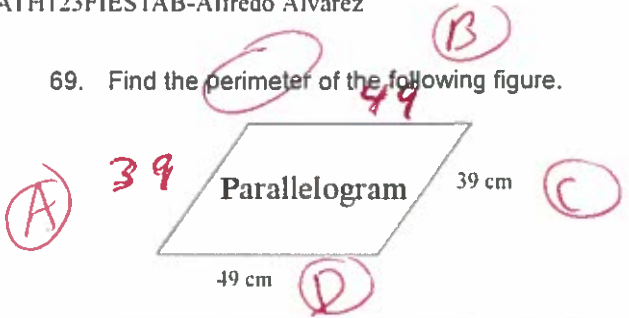
$P = A + B + C + D$   
 $P = 9 + 15 + 9 + 15$   
 $P = 24 + 9 + 15$   
 $P = 33 + 15$   
 $P = 48$

$\begin{array}{r} 9 \\ + 15 \\ \hline 24 \\ + 9 \\ \hline 33 \\ + 15 \\ \hline 48 \end{array}$

OR

$\begin{array}{r} 9 \\ + 15 \\ \hline 24 \\ + 9 \\ \hline 33 \\ + 15 \\ \hline 48 \end{array}$

69. Find the perimeter of the following figure.



$$P = A + B + C + D$$

$$P = 39 + 49 + 39 + 49$$

$$P = 88 + 39 + 49$$

$$P = 127 + 49$$

$$\begin{array}{r} 39 \\ +49 \\ \hline 88 \\ +39 \\ \hline 127 \\ +49 \\ \hline 176 \end{array}$$

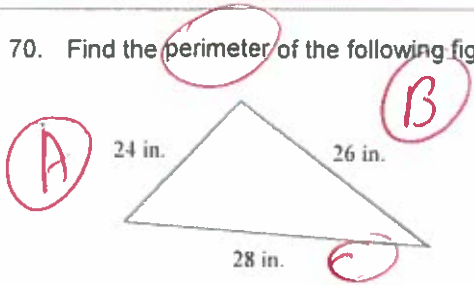
Perimeter =  (1)

- (1)  cm
- sq. cm

Answers 176  
(1) cm

**P = 176**

70. Find the perimeter of the following figure.



$$P = A + B + C$$

$$P = 24 + 26 + 28$$

$$P = 50 + 28$$

$$\begin{array}{r} 24 \\ +26 \\ \hline 50 \\ +28 \\ \hline 78 \end{array}$$

The perimeter is  (1)

- (1)  sq. in.
- in.

Answers 78  
(1) in.

**P = 78**



71. Find the perimeter of the figure shown to the right.

$$P = A + B + C + D + E$$

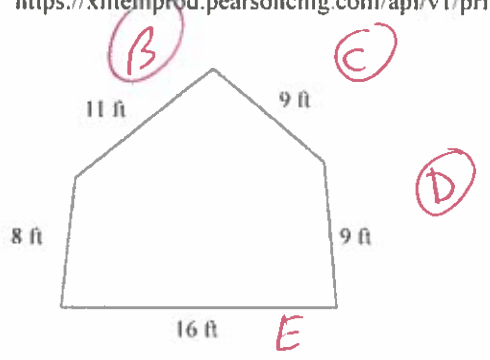
$$P = 8 + 11 + 9 + 9 + 16$$

$$P = 19 + 9 + 9 + 16$$

$$P = 28 + 9 + 16$$

$$P = 37 + 16$$

$$P = 53$$



Perimeter =  (1)

- (1)  sq. ft.
- ft.

Answers 53  
(1) ft.

$$\begin{array}{r} 8 \\ + 4 \\ \hline 12 \\ + 19 \\ \hline 31 \\ + 9 \\ \hline 40 \\ + 16 \\ \hline 56 \end{array}$$

$$\begin{array}{r} 37 \\ + 16 \\ \hline 53 \end{array}$$

72. Find the perimeter of the regular polygon shown to the right.

The perimeter is  (1)

- (1)  yards.
- square yards.

Answers 108  
(1) yards.



$$P = A + B + C + D$$

$$P = 27 + 27 + 27 + 27$$

$$P = 54 + 27 + 27$$

$$P = 81 + 27$$

$$P = 108$$

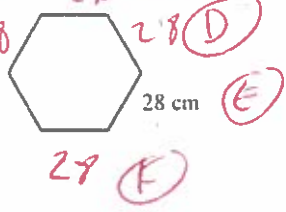
$$\begin{array}{r} 27 \\ + 27 \\ \hline 54 \\ + 27 \\ \hline 81 \\ + 27 \\ \hline 108 \end{array}$$

73. Find the perimeter of the regular polygon shown to the right.

The perimeter is  (1)

- (1)  centimeters.
- square centimeters.

Answers 168  
(1) centimeters.



$$P = A + B + C + D + E + F$$

$$P = 28 + 28 + 28 + 28 + 28 + 28$$

$$P = 56 + 28 + 28 + 28 + 28$$

$$P = 84 + 28 + 28 + 28$$

$$P = 112 + 28 + 28$$

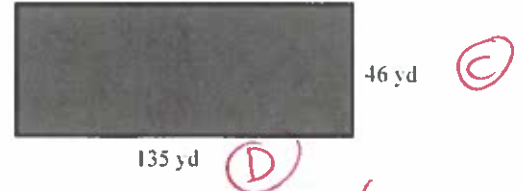
$$P = 140 + 28$$

$$P = 168$$



74. If a playing field is 46 yards wide and 135 yards long, what is the perimeter?

(B) 135



P = A + B + C + D  
P = 46 + 135 + 46 + 135

(A) 46

46  
+ 135  
-----  
181

181  
+ 46  
-----  
227

227  
+ 135  
-----  
362

Perimeter =  (1)

- (1)  sq. yd
- yd

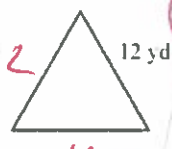
P = 181 + 46 + 135

P = 227 + 135

P = 362

Answers 362  
(1) yd

75. Find the distance around the equilateral triangle shown to the right.



(B)

P = A + B + C  
P = 12 + 12 + 12  
P = 24 + 12

P = 36

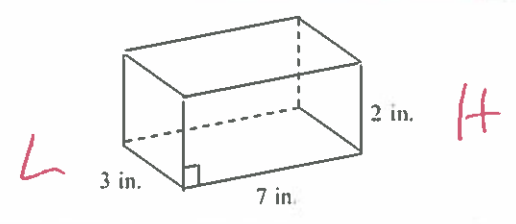
The distance around the figure is  (1)

- (1)  yd.
- sq yd.

12 24  
+ 12 + 12  
-----  
24 36

Answers 36  
(1) yd.

76. Find the volume of the solid.



The volume of the solid is  (1)   
(Simplify your answer.)

- (1)  inches.
- cubic inches.
- square inches.

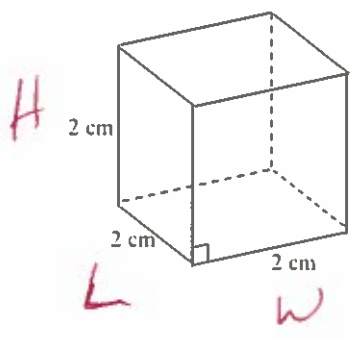
V = L \* W \* H  
V = 3 \* 7 \* 2  
V = 21 \* 2

7  
x 3  
-----  
21  
21  
x 2  
-----  
42

Answers 42  
(1) cubic inches.

V = 42

77. Find the volume of the solid.



The volume of the solid is  (1)   
(Simplify your answer.)

- (1)  cubic centimeters.
- square centimeters.
- centimeteres.

Answers 8

(1) cubic centimeters.

$$V = LWH$$

$$V = 2 \cdot 2 \cdot 2$$

$$V = 4 \cdot 2$$

$$V = 8$$

$$\begin{array}{r} 2 \\ \times 2 \\ \hline 4 \end{array}$$

$$\begin{array}{r} 4 \\ \times 2 \\ \hline \hline 8 \end{array}$$