

**Math Applied - Practice****Multiple Choice**

Identify the choice that best completes the statement or answers the question.

- \_\_\_\_\_ 1.  $7a + x = 5b$   
If  $a = 4$  and  $b = 8$ , solve for  $x$ .
- a. 12                      b. 6                      c. 28                      d. 10
- \_\_\_\_\_ 2.  $4(6) + 3(2 + 5) = \underline{\hspace{1cm}}$   $\times (3 \times 5)$
- a. 4                      b. 2                      c. 3                      d. 5
- \_\_\_\_\_ 3. A computer program applies a certain rule to any number that the user inputs. A sample of the input and output numbers are shown in the table below.

Input	Output
2	8
3	10
5	14
7	18

What rule does the program apply to the input number to generate the output number?

- a.  $I \times (I \times 3)$               b.  $(I + 2) \times 2$               c.  $I \times 2$                       d.  $(I \times 3) - 1$
- \_\_\_\_\_ 4. If:  $a - 17 = 4b$ . What else is true?
- a.  $a - 4b = 17$               b.  $a + 4b = -17$               c.  $4b + a = -17$               d.  $4b + a = 17$
- \_\_\_\_\_ 5. Convert 20% to a fraction.
- a.  $\frac{1}{20}$                       b.  $\frac{1}{10}$                       c.  $\frac{1}{2}$                       d.  $\frac{1}{5}$
- \_\_\_\_\_ 6. Convert  $\frac{2}{3}$  to a decimal.
- a. 2.3                      b. 0.33                      c. 0.23                      d. 0.66
- \_\_\_\_\_ 7. Convert 130% to a decimal.
- a. 13.0                      b. 1.3                      c. 130                      d. 0.13

Name: \_\_\_\_\_

ID: A

8. Put the following numbers in order from least to greatest.

40%	$\frac{1}{5}$	2.7	$\frac{2}{3}$	90%	0.6
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- a.  $\frac{1}{5}$   $\frac{2}{3}$  40% 90% 0.6 2.7  
b. 0.6 2.7  $\frac{1}{5}$   $\frac{2}{3}$  40% 90%  
c.  $\frac{1}{5}$  40% 0.6  $\frac{2}{3}$  90% 2.7  
d. 40%  $\frac{1}{5}$  0.6  $\frac{2}{3}$  2.7 90%

9. 11.084 to the nearest hundredth.

- a. 11.80                      b. 11.1                      c. 100                      d. 11.08

10. Last year, a manufacturer produced 124,813 bicycles. What is this number to the nearest thousand?

- a. 124,800                      b. 125,000                      c. 120,000                      d. 124,000

11. A taxi makes 9 trips a day. Each trip is 4.5 miles. After 7 days, **approximately** how many miles have been traveled?

- a. 280                      b. 30                      c. 40                      d. 200

12. A restaurant served the following number of customers lunch over the last 7 days (listed below). What is the average number of customers the restaurant serves each day?

Mon.	Tues.	Wed.	Thurs.	Fri.	Sat.	Sun.
25	35	55	75	15	60	15

- a. 40                      b. 45                      c. 35                      d. 30

13.

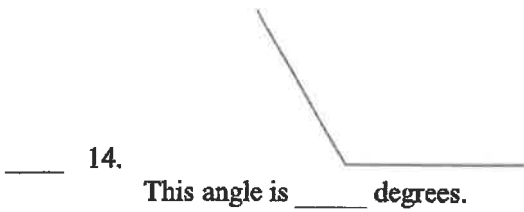


This angle is \_\_\_\_\_ degrees.

- a. 45                      b. 135                      c. 80                      d. 30

Name: \_\_\_\_\_

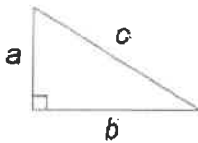
ID: A



This angle is \_\_\_\_\_ degrees.

- a. 90                      b. 45                      c. 120                      d. 180

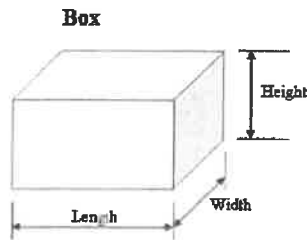
15.



What is the area of the triangle if  $a = 7$  and  $b = 8$ ?  $A = \frac{1}{2}ab$

- a. 15                      b. 28                      c. 11                      d. 56

16.



What is the volume of the box in cubic feet where:

Length = 9 feet      Width = 4 feet      Height = 12 inches

- a. 432 cubic feet      b. 48 cubic feet      c. 25 cubic feet      d. 36 cubic feet

17.

**Number of Seats at Each Venue**

	Baseball	Hockey	Soccer	Football
Field Level	3,290	2,650	4,550	9,520
Box Seats	2,485	1,890	3,694	7,645
Suites	1,240	3,408	2,136	2,048
Bleachers	8,925	2,394	6,908	4,884

Which venue has the most number of seats in its suite section?

- a. Baseball              b. Hockey              c. Soccer              d. Football

18.

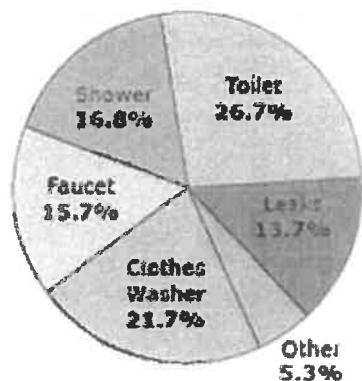
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Soccer has the most number of seats in which section?

- a. Field Level      b. Box Seats      c. Suites      d. Bleachers

How Much Water Do We Use?



19.

What is the 2nd leading cause of water usage in the home?

- a. Toilet      b. Clothes Washer      c. Shower      d. Faucet

20.

Use the same pie chart that you did for question 19. Which statement is not true?

- a. We use more water washing our clothes than we do in the shower.  
 b. More water is used because of leaks than water used by faucets.  
 c. Toilets consume the most water in the home.  
 d. Showering, faucets and clothes washers account for over one half of home water usage.

21.

A race consists of 120 laps. If  $\frac{1}{3}$  of the laps are complete, how many more laps are there left to go?

- a. 40      b. 80      c. 50      d. 70

22.

A plane is able to accomodate 200 passengers. If the plane is 70% full, how many more passengers can it hold?

- a. 60      b. 140      c. 30      d. 70

23.

You are saving up money for a computer. The cost is \$750. You have already saved \$225. If you are able to save \$25 a week, how many weeks will it take for you to have enough money to buy the computer?

- a. 30      b. 26      c. 9      d. 21

24.

If it normally takes 2 people, 90 minutes to mow a lawn. How long would it take if 6 people were mowing the same lawn?

- a. 1 hour      b. 4 hours, 30 minutes      c. 30 minutes      d. 48 minutes

**Math Applied - Practice  
Answer Section****MULTIPLE CHOICE**

- |            |        |
|------------|--------|
| 1. ANS: A  | PTS: 1 |
| 2. ANS: C  | PTS: 1 |
| 3. ANS: B  | PTS: 1 |
| 4. ANS: A  | PTS: 1 |
| 5. ANS: D  | PTS: 1 |
| 6. ANS: D  | PTS: 1 |
| 7. ANS: B  | PTS: 1 |
| 8. ANS: C  | PTS: 1 |
| 9. ANS: D  | PTS: 1 |
| 10. ANS: B | PTS: 1 |
| 11. ANS: A | PTS: 1 |
| 12. ANS: A | PTS: 1 |
| 13. ANS: C | PTS: 1 |
| 14. ANS: C | PTS: 1 |
| 15. ANS: B | PTS: 1 |
| 16. ANS: D | PTS: 1 |
| 17. ANS: B | PTS: 1 |
| 18. ANS: D | PTS: 1 |
| 19. ANS: B | PTS: 1 |
| 20. ANS: B | PTS: 1 |
| 21. ANS: B | PTS: 1 |
| 22. ANS: A | PTS: 1 |
| 23. ANS: D | PTS: 1 |
| 24. ANS: C | PTS: 1 |

