Answer questions 1-35 on your Scantron.
Questions 1-30 will be scored for the Power Bowl event. In the event of a tie, questions 31-35 will be used as the tiebreaker.

1. Round to the nearest hundredth: 0.03456

a. 0.03 b. 0.04 c. 0.034 d. 0.035 e. 0.044

2. Solve. $(-8)-(-13)=$

a. -21 **b.** -5 **c.** 5 **d.** 21 **e. NG**

3. Solve. $\left(2\times\frac{1}{100}\right)+\left(3\times\frac{1}{1000}\right)+\left(7\times\frac{1}{10000}\right)=$

a. 2.37 b. 0.237 c. 0.0237 d. 120 e. 2.5

4. Which is nearest in value to 8?

a. 8.1 b. 8.01 c. 8.005 d. 7.985 e. 7.9

5. Two dozen eggs at 89¢ per dozen are paid for with a $10 bill. The proper change is

a. $1.78 b. $7.22 c. $8.22 d. $9.11 e. $11.78

6. Solve: $\frac{5075}{25}$

a. 23 b. 203 c. 213 d. 230 e. NG

7. How many hundreds are there in 1,000,000?

a. 1 million b. 1 thousand c. 10 thousand d. 100 thousand e. 1 hundred

8. The least common multiple of 22 and 33 is

a. 11 b. 44 c. 66 d. 132 e. NG

9. Solve. $10 + 20 \div 2 + 3 =$

a. 6 b. 14 c. 18 d. 23 e. NG

10. Which of the following decimals is closest to zero?

a. 0.08 b. - 0.07 c. 0.2 d. – 0.1 e. 1

11. 12 ½ % of 80 =

a. 10 b. 12 c. 16 d. 100 e. 1,000

12. Solve. $0.1 \times 0.2 \times 0.3 =$

a. 0.0006 b. 0.006 c. 0.06 d. 0.6 e. 6.0

13. In the number 987654321000, what digit is in the ten millions' place?

a. 4 b. 5 c. 6 d. 7 e. 8

14. In Dracsylvania, people use DRACS instead of dollars, and 1 DRAC equals $1.70. For these people, $34.00 =

a. 2 DRACS b. 17 DRACS c. 20 DRACS d. 34 DRACS e. NG

15. **2.97×4.13 is most nearly equal to**

a. 120 **b. 12** **c. 1.2** **d. 0.12** **e. 8**

16. **Solve.** $\left(-\frac{1}{2}\right)\times\left(-\frac{2}{3}\right)\times\left(-\frac{3}{4}\right)\times\left(-\frac{4}{5}\right)=$

a. $\frac{1}{5}$ **b.** $\frac{1}{2}$ **c.** $-\frac{1}{2}$ **d.** $-\frac{1}{5}$ **e. NG**

17. **Find the ratio of 15 centimeters to 3 meters.**

a. 1:20 **b. 1:5** **c. 5:1** **d. 20:1** **e. 3:1**

18. **Solve.** $2\frac{1}{2}\times 3\frac{3}{4}\times 5\frac{1}{3}=$

a. 50 **b.** $31\frac{7}{12}$ **c.** $30\frac{1}{8}$ **d.** $11\frac{7}{12}$ **e.** $30\frac{3}{24}$

19. **The area of a rectangle is 24 sq cm. The length of one side of the rectangle is 8cm. The perimeter of the rectangle is**

a. 3cm **b. 11 cm** **c. 22 cm** **d. 24 cm** **e. 14 cm**

20. $3 \times 3 \times 3 \times 2 \times 2 =$

a. $3^2 \times 2^3$ **b.** 9×4 **c.** $6^2 \times 3$ **d.** 27×8 **e. NG**

21. A car is driven at the rate of 30 km per hour. The distance the car covers in one minute is

a. 15 km **b. 2 km** **c.** $\frac{1}{2}$ **km** **d. 4 km** **e. 60 km**

22. Which of the following numbers is divisible by 3?

a.	b.	c.	d.	e.
11,111	1,111,111	11,111,111	111,111,111	1,111,111,111

23. In a box containing 115 marbles, 25 are blue, 22 are brown and 68 are red. What is the probability of randomly selecting a blue marble?

a. $\frac{115}{25}$ **b.** $\frac{22}{115}$ **c.** $\frac{5}{23}$ **d.** $\frac{25}{90}$ **e. NG**

24. Which is the largest?

a.	b.	c.	d.	e.
$5+6+7$	$5 \times 6 \times 7$	$\sqrt{5}+\sqrt{6}+\sqrt{7}$	$5^2+6^2+7^2$	$5^{-1} \cdot 6^{-1} \cdot 7^{-1}$

25. In a right triangle, if the lengths of the legs are 10 and 24, the length of the hypotenuse is

a. 17 **b. 26** **c. 34** **d. 38** **e. 16**

26. Which of the following fractions is less than one-third?

a. $\frac{5}{14}$ **b.** $\frac{15}{46}$ **c.** $\frac{31}{90}$ **d.** $\frac{104}{309}$ **e. NG**

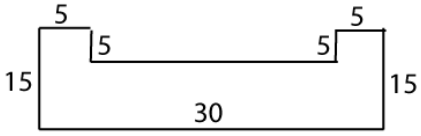
27. A worker's daily salary is increased from \$40 to \$50. The percent of increase is

a. 50% **b. 25%** **c. 20%** **d. 10%** **e. 125%**

28. Solve. $4.9 = c + 3.7$

a. 8.6 **b. 7.2** **c. 1.2** **d. 7.6** **e. 1.3**

29. In the figure below, all angles are right angles. Find the area of this figure.

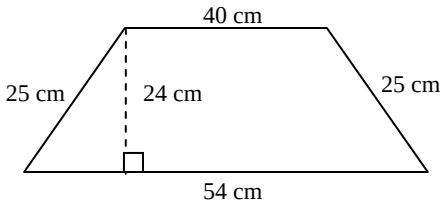


a. 300 **b. 325** **c. 350** **d. 450** **e. NG**

30. Simplify the expression $93 + 3^2 \cdot 6^2 - 4^3 =$

a. 324 **b. 417** **c. 353** **d. 416** **e. 453**

31. Find the number of square centimeters in the area of the trapezoid shown.



a. 1296 cm^2 b. 144 cm^2 c. 1,128 cm^2 d. 1,044 cm^2 e. 2,256 cm^2

32. Which expression represents "twice the difference of a number and 8"?

a. $2(x+8)$ b. $2x-8$ c. $2(x-8)$ d. $2x+8$ e. $(n+8)-2$

33. Of the following fractions, which is 50% greater than $\frac{3}{7}$?

a. $\frac{4}{7}$ b. $\frac{5}{7}$ c. $\frac{7}{10}$ d. $\frac{9}{14}$ e. $\frac{3}{14}$

34. The measure of the largest angle in a triangle can <u>never</u> be

a. 59º b. 61º c. 178º d. 179º e. 62º

35. **Solve.** $\frac{1}{3}(5y-4)=7$

a. $y=\frac{11}{5}$ **b.** $y=5$ **c.** $y=\frac{11}{15}$ **d.** $y=\frac{3}{5}$ **e.** $y=\frac{1}{5}$