CIE-USA/DFW

Math Comp 2011

Grade 4

30 questions

Time: One Hour

Note:

- Make sure to write all your answers on the answer sheet. Only the answer sheet will be graded.
- Each question only has one correct answer.
- Print your name clearly and legibly below.

Name _____

Code _____

Room _____

Time End _____

1. How many 20 cents gumballs can I buy for $3?

A. 9 B. 10 C. 15 D. 20 E. 25

2. $-\sqrt{81}$ is which kind of number?

A. integer B. irrational C. transcendental D. imaginaryE. none of these answers

3. If $1 + 3 + 5 + \mathsf{L} + 49 = 625$, then $2 + 4 + 6 + \mathsf{L} + 50 = ?$

A. 630 B. 675 C. 640 D. 660 E. 650

4. Simplify $(10^3 + 5^3) + (10^2 - 5^2)$

A. 1150 B. 1200 C. 1225 D. 1250 E. 1300

5. The product of 2011 and any odd number is always

A. even B. 2011 C. irrational D. odd E. prime

6. Katie multiplied 11111·11111 and wrote down the product. The largest odd digit of the product that she wrote was

A. 7 B. 6 C. 5 D. 4 E. 3

7. If you subtract 18 ones from 18 tens, the result is

A. 0 B. 172 C. 198 D. 162 E. 168

8. When I look at our alphabet. I see that the letter ___ has four times as many letters before it as after it.

A. E B. G C. T D. S E. U

9. Lee, Pat, and Sam bought ice pops. Lee bought 2 times as many as Pat; Sam bought 3 times as many as Lee. If Sam bought 12 ice pops, how many did Pat buy?

A. 5 B. 6 C. 2 D. 3 E. 4

10. The product of 2 different positive numbers is 13. Their sum is

A. 14 B. 15 C. 16 D. 11 E. 12

11. I have 26 cents. If I doubled the number of nickels I have, I would then have 51 cents. Exactly how many nickels do I have?

A. 4 B. 5 C. 6 D. 3 E. 7

12. My giant sunflower doubles its size every day. On Saturday, it is __ times as big as it was on the preceding Sunday.

A. 8 B. 128 C. 16 D. 32 E. 64

13. Each of the following is divisible by 8 except

A. 6488 B. 8864 C. 4433 D. 3344 E. 7728

14. 3 dollars + 15 pennies = 1 dollar + __ pennies.

A. 215 B. 175 C. 180 D. 200 E. 210

15. $45 \cdot 45 = 5 \cdot 5 \cdot$ ____

A. 135 B. 45 C. 225 D. 81 E. 405

16. Divide $201 \cdot 201$ by 67^2 . The quotient is

A. 6 B. 9 C.3 D.51 E. 12

17. My birthday was Tuesday. Three days before my birthday was ___.

A. Friday B. Sunday C. Saturday D. Thursday E. Wednesday

18. Three friends and I put dimes in a piggy bank. After the 4 of us put in equal number of dimes, I had 5 dimes left over. I put those in the piggy bank too. Which of the following could have been the total number of dimes we put in the bank?

A. 15 B. 16 C. 26 D. 28 E. 29

19. The perimeter of my square hammock is 32. What is the area of my hammock?

A. 8 B. 16 C. 25 D. 64 E. 36

20. The smallest whole number divisible by both 12 and 16 is ___.

A. 48 B. 24 C. 32 D. 96 E. 64

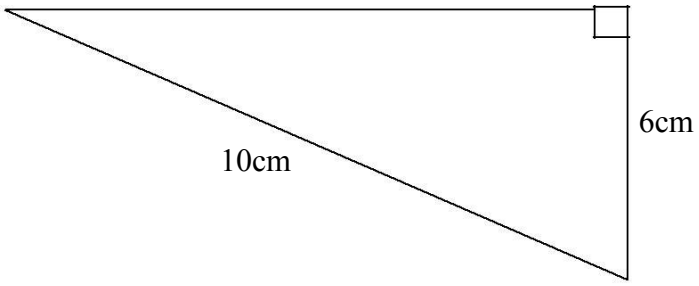
21. Along a straight road, an ice cream vendor is 3 *km* from the bus and 7 *km* from the train. The least possible distance between the bus and the train is ___.

A. 3 *km* B. 10 *km* C. 5 *km* D. 13 *km* E. 4 *km*

22. If David walks for 60 minutes at the rate of 4 *mph* , and then runs for 25 minutes at the rate of 6 *mph* , how many miles will he travel?

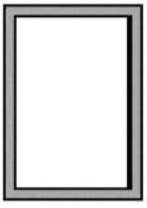
A. 6.5 B. 6 C. 5.5 D. 7 E. 5

23. If hypotenuse *c* is 10 centimeters, and one leg is 6 centimeters. What is the area of this right triangle?



A. 48 cm^2 B. 16 cm^2 C. 24 cm^2 D. 14 cm^2 E. 20 cm^2

24. A 10 *cm* by 15 *cm* page of a book includes a 2 *cm* margin on each side. What's the area of the margin in total?



A. 70 cm^2 B. 84 cm^2 C. 42 cm^2 D. 100 cm^2 E. 80 cm^2

25. In the division, 132132132004 ⎪11, the remainder is

A. 3 B. 6 C. 4 D. 5 E. 1

26. $(23 - 7) \cdot (3 - 1) = ?$

A. 8 B. 16 C. 18 D. 20 E. 32

27. I am thinking of a number. When I multiply it by 11, the product is 0. When I multiply it by 7 instead of by 11, the product is ___.

A. 0 B. 7 C. 14 D. $\frac{7}{11}$ E. $\frac{11}{7}$

28. 20 hundred + 20 tens = __ ones.

A. 2020 B. 220 C. 2002 D. 2200 E. 20220

29. All the integers greater than 111 and less than 1111 are multiplied together. The last digit [units digit] of the product is __.

A. 2 B. 0 C. 5 D. 1 E. 9

30. How many whole numbers between 111 and 1111 are divisible by 6, 8 and 9?

A. 12 B. 13 C. 14 D. 15 E. 16

TIE BREAKER QUESTIONS:

31. Here is a sequence of numbers: $-37, -30, -23, \ldots$; what's the smallest positive term of this sequence?

A. 1 B. 2 C. 3 D. 4 E. 5

32. At most ___ circles of radius 1 with non-overlapping interiors can fit inside a square with side-length 4.

A. 1 B. 4 C. 5 D. 3 E. 16

SCRAP PAPER