

Eighteen books of past contests, Grades 4, 5, \& 6 (Vols. 1, 2, 3, 4, 5, 6), Grades $7 \mathcal{E} 8$ (Vols. 1, 2, 3, 4, 5, 6), and High School (Vols. 1, 2, 3, 4, 5, 6), are available, for $\$ 12.95$ per volume, from Math League Press, P.O. Box 17, Tenafly, NJ 07670-0017.

| 2012-2013 5TH GRADE CO |
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| 1. Since 14 days before Saturday is Sa |
| more days before that would be Tu |
| A) Tuesday B) Wednesday <br> C) Thursday D) Friday |

2. $(1+2+3) \times 10=60=30+20+10$.
A) 10
B) 11
C) 33
D) 44
3. I listened to 6 songs before the one I'm listening to now, and I will listen to 6 more after this one. That's $6+1+6=13$ songs.


Answers 1. A
A) 11
B) 12
C) 13
D) 14
4. 100 hundreds $\div 10$ tens $=10000 \div 100=100$.
A) 10
B) 100
C) 1000
D) 10000
4. B
5. $9+99+999=9 \times(1+11+111)=9 \times 123$.
A) 111
B) 112
C) 122
D) 123
6. I created 30 characters, 3 for each video game I own. That means I own $30 \div 3=10$ video games.
A) 10
B) 33
C) 40
D) 90
7. If I add the number of sides that a hexagon has (6) to the number of sides that a pentagon has $(5)$, then the sum is $6+5=11$, which is odd.
A) rhombus
B) square
C) pentagon
D) quadrilateral
8. $40+30 \times 20+10 \times 0=40+600+0=640$.
A) 0
B) 150
C) 640
D) 1400
9. Subtract 6 from 30 to get 24 , which is twice my age. Therefore, I am 12 years old. My brother is 6 years older than I am, so he is 18 .
A) 12
B) 15
C) 18
D) 21
10. Since $\$ 50-\$ 16=\$ 34$, Don paid $\$ 34 \div 5=\$ 6.80$ per tropical punch.
A) $\$ 5.20$
B) $\$ 6.80$
C) $\$ 8.20$
D) $\$ 8.80$
11. The average of 12 and 24 is $(12+24) \div 2=18$.
A)
B) 18
C) 24
D) 36

$\frac{\text { 2012-2013 5TH GRADE CONTEST }}{\text { 12. One hr. and } 46 \mathrm{~min} .=(60+46) \mathrm{min} .=106}$ minutes. Playing at twice that speed, it would take Manuel $106 \div 2=53$ minutes to play the concerto.
A) 53
B) 73
C) 83
D) 212
13. Add 60 to 180 and divide by $3: 240 \div 3=80$.
A) 40
B) 60
C) 70
D) 80
14. There are a total of 2013 students enrolled at 8 high schools. There are 234 students at each of 4 of the schools, for a total of 936 students. That leaves $2013-936=1077$ students.

A) 1077
B) 1123
C) 1234
D) 1443
15. Three different books, $A, B, C$, are arranged on my bookshelf. They may be arranged as $A B C, A C B, B A C, B C A, C A B$, or $C B A$.
A) 3
B) 4
C) 5
D) 6
16. A square piece of paper has a perimeter of 36 cm . Twice the perimeter is 72 cm . Each side is $72 \div 4=18 \mathrm{~cm}$, and the area is $324 \mathrm{~cm}^{2}$.
16.
A) $72 \mathrm{~cm}^{2}$
B) $108 \mathrm{~cm}^{2}$
C) $144 \mathrm{~cm}^{2}$
D) $324 \mathrm{~cm}^{2}$
17. The value of 1 quarter, 1 dime, and 1 nickel is $40 ¢$. My coins must have a total value divisible by 40 , but $\$ 3.80$ is not divisible by 40 .
A) $\$ 2.40$
B) $\$ 3.80$
C) $\$ 4.40$
D) $\$ 5.20$
18. The whole number factors of 12 are $1,2,3,4,6$, and 12 .
A) 6
B) 9
C) 12
D) 16
19. The least common multiple of 10 and 24 is 120 ; the greatest common factor of 10 and 24 is 2 . Their sum is $120+2=122$.

Answers
12.

A
13.

D
14.

A
A
A) 121
B) 122
C) 241
D) 242
20. For every 8 vehicles in the lot, 5 are cars and 3 are trucks. If the lot has 120 vehicles, that's 15 groups of 8 . Each group has 5 cars: $15 \times 5=75$.
A) 24
B) 45
C) 75
D) 80
21. A rate of $600 \mathrm{~m} / \mathrm{min} .=60000 \mathrm{~cm} / \mathrm{min} .=$ $60000 \mathrm{~cm} / 60 \mathrm{sec} .=1000 \mathrm{~cm} / \mathrm{sec}$.
A) 100
B) 600
C) 1000
D) 60000


D

