1. \(26^3 - 25^3 =\)
   A) 1           B) 1951       C) 1973           D) 1987

2. By playing on the Music Truck, more than 4 friends (but fewer than 9) earned a total of $88.92. If each got the same pay, how much was each paid?
   A) $17.78       B) $14.82     C) $12.70       D) $11.12

3. If the sum of two numbers equals their difference, their product is
   A) 0           B) 1          C) 2            D) 4

4. The length of each side of a square is a whole number of cm. Which of the following could be the area of the square?
   A) 200 cm\(^2\)   B) 300 cm\(^2\)  C) 400 cm\(^2\)   D) 500 cm\(^2\)

5. Multiply my favorite whole number by 8, then round to the nearest 10. You'll get 130. The sum of the digits of my favorite number is
   A) 6           B) 7          C) 8            D) 9

6. Which of the following is between \(10^3\) and \(10^4\)?
   A) 2\(^5\)       B) 2\(^6\)       C) 2\(^7\)       D) 2\(^13\)

   Five boys and four girls are standing in a circle. Just two of the boys can say “Next to me is a boy.” How many of the girls can say “Next to me is a girl”?
   A) 0           B) 1          C) 2            D) 3

   Turn test over for additional problems on back...
8. Ten 10's + nine 9's + eight 8's equals  
   A) 145  B) 243  C) 245  D) 720

9. At a recent Sing Thing, it was found that, together, Ann & Bob weigh 180 kg, Carl & Dee weigh 210 kg, and Ann & Carl weigh 220 kg. Together, Bob & Dee weigh  
   A) 170 kg  B) 180 kg  
   C) 190 kg  D) 200 kg

10. Round 999 999 to the nearest ten.  
    A) 999 900  B) 999 990  C) 999 000  D) 1 000 000

11. The average of 4 km and 400 cm is ___ m.  
    A) 202  B) 220  C) 2002  D) 22 000

12. On vacation, my front teeth hurt on 4 days. That was half as many days as they were OK. My vacation lasted ___ days.  
    A) 2  B) 6  C) 8  D) 12

13. 12×57 + 12×43 =  
    A) 2400  B) 1298  C) 1296  D) 1200

14. Seven identical 2 m tall ice sculptures were carved so that one was completed at the end of each hour in a 7-hour period of time. Each sculpture shrank at the rate of 10 cm per hour. When completed, the last sculpture was ___ cm taller than the first sculpture was at that very moment.  
    A) 50  B) 60  C) 70  D) 80

15. ___ is the product of two whole numbers whose difference is 1.  
    A) 63  B) 80  C) 90  D) 99

The test is complete! Turn in your completed Scantron card to your proctor. You may KEEP this copy of the test :-}
2009 Shoreline Math Olympiad
5th Grade  Individual Test #2

*All answers for these questions need to be entered onto a scantron card
Ask proctor for additional instructions if you are unsure how to mark your answers on the card properly!

1. There are exactly 15 prime numbers less than 50. Exactly how many prime numbers are less than 60?
   A) 19  B) 18  C) 17  D) 16

Now, Tina is 10 years older than Ike was 5 years ago. Ike is 15 now.
2. How old will Tina be in 2 years?
   A) 27  B) 25  C) 22  D) 20

3. The average of two numbers is 8 and their product is 55. The larger of the two numbers is
   A) 5  B) 7  C) 9  D) 11

4. Mary has 41¢ in coins. No two coins have the same value. How many coins does Mary have?
   A) 4  B) 5  C) 6  D) 7

5. If 1 bleep = 6 peeps, then 600 peeps =
   A) 10 bleeps  B) 100 bleeps  C) 3600 bleeps  D) 6000 bleeps

6. The difference between the measure of one angle of a square and the measure of one angle of an equilateral triangle is
   A) 30°  B) 45°  C) 60°  D) 90°

In the diagram at the right, the perimeter of the larger square is 36 and the perimeter of the smaller square is 16. What is the area of the shaded region?
7. A) 4  B) 20  C) 25  D) 65

Turn test over for additional problems on back...
8. Of all rectangles that can be formed from thirty $4 \times 4$ squares, the one with the greatest perimeter has a perimeter of
   A) 88      B) 136     C) 248     D) 480

9. Paul buys a new football every 3 years. Paul bought his first football when he was 8. He bought his fifth football when he was
   A) 11      B) 19      C) 20      D) 23

10. 2 weeks = 7 days + ? hours.
    A) 24      B) 168     C) 240     D) 336

11. Of 27 mice, 24 are not hurrying. How many are hurrying?
    A) 2       B) 3       C) 12      D) 24

12. Red pens are sold at 3 for $1 and black pens are sold at 4 for $1.50. Alice bought 12 red pens and 24 black pens. She paid for them with a $20 bill. How much change did she receive?
    A) $7       B) $9      C) $13     D) $16

13. Mr. Sheep, there's no need to worry! Sheepskin is just slang for the college diploma you got 3 days before the day after Tuesday, which was a

14. $6400 \div 80 = 80 \times ?
    A) 1       B) 80      C) 800     D) 6400

15. The product of two consecutive integers is 2550. The larger of these two integers is
    A) 25       B) 26      C) 50      D) 51

The test is complete! Turn in your completed Scantron card to your proctor.
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