Name_____   Date_____

Directions: Complete as many problems as you can in the 30 minutes allotted to you. No calculators!

1. Six hundred six thousand, sixty can be written which of the following ways?
   (**A**) 66,060   (**B**) 606,006   (**C**) 606,060   (**D**) 660,006   (**E**) 660,060

2. Which of the following has the smallest subtrahend?
   (**A**) $74\dfrac{367}{478} - 37\dfrac{127}{354}$ (**B**) $74\dfrac{367}{476} - 37\dfrac{127}{356}$ (**C**) $74\dfrac{367}{479} - 37\dfrac{127}{353}$ (**D**) $74\dfrac{367}{477} - 37\dfrac{127}{355}$ (**E**) $74\dfrac{367}{475} - 37\dfrac{127}{357}$

3. Which of the following is the sum of an odd and an even number?
   (**A**) $4,623+7,951$ (**B**) $6,842+1,376$ (**C**) $8,465+7,951$ (**D**) $2,834+8,465$ (**E**) $1,376+2,834$

4. For 123,456.789123, what is the product of the digits in the thousands place and the ten-thousandths place?
   (**A**) 2   (**B**) 3   (**C**) 4   (**D**) 6   (**E**) 27

5. Which of the following has the smallest quotient?
   (**A**) $1,200\div(6\times10)$ (**B**) $1,200\div(8\times5)$ (**C**) $1,200\div(15\times2)$ (**D**) $1,200\div(25\times4)$ (**E**) $1,200\div(60\times2)$

6. If a store sells a half-dozen golf clubs for $576.84, how much would each club cost?
   (**A**) $94.24   (**B**) $95.04   (**C**) $95.24   (**D**) $96.04   (**E**) $96.14

7. What is the reciprocal of 2.5?
   (**A**) 0.2   (**B**) 0.25   (**C**) 0.3   (**D**) 0.4   (**E**) 0.5

8. For $12\div6=2$ and $8-0=8$, which of the following is the least?
   (**A**) $(\text{divisor} + \text{minuend} + \text{dividend}) \times \text{subtrahend}$ (**B**) $\text{dividend} - \text{minuend}$ (**C**) $\text{divisor} - \text{subtrahend}$
   (**D**) $\text{minuend} \div \text{quotient}$ (**E**) $\text{quotient} - \text{subtrahend}$

9. If the tennis ball crosses the net 3 times every 10 seconds, how many times will it cross in $2\dfrac{1}{3}$ minutes?
   (**A**) 38   (**B**) 40   (**C**) 42   (**D**) 44   (**E**) 46

10. You paid $6.27 for your lunch with a twenty-dollar bill and two pennies. If the cashier hands you a ten dollar bill, how many $1 bills and quarters should you get back?
   (**A**) 2 ones and 1 quarter   (**B**) 2 ones and 2 quarters   (**C**) 2 ones and 3 quarters
   (**D**) 3 ones and 2 quarters   (**E**) 3 ones and 3 quarters

11. $18\dfrac{8}{10}$ seconds ago, you announced that you would fire your rocket for science class in exactly two minutes. How much time will be left in $45\dfrac{9}{10}$ more seconds?
   (**A**) $55\dfrac{3}{10}$ (**B**) $55\dfrac{7}{10}$ (**C**) $56\dfrac{3}{10}$ (**D**) $56\dfrac{7}{10}$ (**E**) $56\dfrac{7}{20}$

12. Two-sevenths of the girls have a brother. If there are 91 girls, how many girls do not have a brother?
   (**A**) 26   (**B**) 55   (**C**) 63   (**D**) 65   (**E**) 70

13. If 17 students pass through the lunch line every 102 seconds, how many students will pass through the line in 30 minutes?
   (**A**) 280   (**B**) 300   (**C**) 320   (**D**) 340   (**E**) 360

14. You have $500 to spend on carpeting for your bedroom that measures 12 feet by 15 feet. How much per square yard can you spend on carpeting?

(A) $6.25   (B) $20   (C) $24   (D) $25   (E) $30

15. Which set of fractions are decreasing in order from left to right?

(A) $\dfrac{49}{118}; \dfrac{7}{17}; \dfrac{27}{69}$
(B) $\dfrac{49}{118}; \dfrac{27}{69}; \dfrac{7}{17}$
(C) $\dfrac{27}{69}; \dfrac{7}{17}; \dfrac{49}{118}$
(D) $\dfrac{7}{17}; \dfrac{49}{118}; \dfrac{27}{69}$
(E) $\dfrac{7}{17}; \dfrac{27}{69}; \dfrac{49}{118}$

16. Which of the following has the smallest difference?

(A) $26 - 4\dfrac{8}{19}$
(B) $27 - 4\dfrac{8}{19}$
(C) $28 - 4\dfrac{8}{19}$
(D) $28 - 4\dfrac{9}{19}$
(E) $28 - 4\dfrac{10}{19}$

17. Which of the following has the greatest difference?

(A) $36.9 - (7.68 + 6.56)$
(B) $36.9 - (7.68 + 6.55)$
(C) $36.9 - (7.68 + 6.54)$

(D) $36.8 - (7.68 + 6.54)$
(E) $36.7 - (7.68 + 6.54)$

18. What is the difference between eight thousand eighty and eight thousandths, and eight and eight hundredths?

(A) 7,971.928   (B) 8,071.928   (C) 8,072.088   (D) 8,072.928   (E) 8,081.928

19. Three-sixteenths of the cats are white and three-eighths of the cats are black. What fraction of the cats is not white or black?

(A) $\dfrac{5}{16}$
(B) $\dfrac{7}{16}$
(C) $\dfrac{9}{16}$
(D) $\dfrac{3}{4}$
(E) $\dfrac{23}{32}$

20. Which of the following has the least difference?

(A) $64\dfrac{11}{16} - \left(4\dfrac{3}{8} - 2\dfrac{1}{24}\right)$
(B) $64\dfrac{11}{16} - \left(4\dfrac{3}{8} - 2\dfrac{5}{24}\right)$
(C) $64\dfrac{11}{16} - \left(4\dfrac{3}{8} - 2\dfrac{7}{24}\right)$

(D) $64\dfrac{11}{16} - \left(4\dfrac{3}{11} - 2\dfrac{1}{24}\right)$
(E) $64\dfrac{11}{16} - \left(4\dfrac{3}{13} - 2\dfrac{1}{24}\right)$

21. If it takes a bug 58 seconds to crawl $7\dfrac{1}{4}$ inches, how many seconds would it take the bug to crawl 19 inches?

(A) 146   (B) 148   (C) 150   (D) 152   (E) 154

22. The diameter of a circle is $5\dfrac{7}{11}$ inches and the radius is $2\dfrac{9}{11}$ inches. Find the value of $\dfrac{18}{\text{diameter} \div \text{radius}}$.

(A) 2   (B) 3   (C) 6   (D) 9   (E) 18

23. If your average on four tests is 96, and three of your test scores are 93, 99, and 97, what is your fourth test score?

(A) 94   (B) 94.5   (C) 95   (D) 95.5   (E) 96

24. If 350 people enter the amusement park every 8 minutes, how many people will enter the park in 2 hours?

(A) 5,000   (B) 5,100   (C) 5,150   (D) 5,200   (E) 5,250

25. Which of the following is true?

(A) $9\dfrac{1}{2} \div \dfrac{4}{3} < 9\dfrac{1}{2} \times \dfrac{4}{3}$
(B) $\dfrac{4}{3} + \dfrac{4}{3} < \dfrac{4}{3} \times \dfrac{4}{3}$
(C) $8\dfrac{3}{4} \div \dfrac{3}{4} < 8\dfrac{3}{4} \times \dfrac{3}{4}$

(D) $6\dfrac{1}{4} \times 0 > 6\dfrac{1}{4} + 0$
(E) $\dfrac{1}{13} \times 49 > \dfrac{1}{12} \times 49$

1. C	2. E	3. D	4. B	5. E
6. E	7. D	8. A	9. C	10. E
11. A	12. D	13. B	14. D	15. A
16. A	17. C	18. B	19. B	20. A
21. D	22. D	23. C	24. E	25. A

1. 606,060
2. E
3. $2834 + 8465$
4. $3 \times 1 = 3$
5. $1,200 \div (60 \times 2)$
6. $576.84 \div 6 = 96.14$
7. $\dfrac{1}{2.5} = 0.4$
8. 0 times anything is 0. Therefore A.
9. $140 \div 10 \times 3 = 42$
10. $10.02 - 6.27 = 3.75$
11. $120 - 64\dfrac{7}{10} = 55\dfrac{3}{10}$
12. $\dfrac{5}{7} \times 91 = 65$
13. $\dfrac{30 \times 60}{6} = 300$
14. $500 \div 20 = 25$
15. $\dfrac{49}{118}; \dfrac{7}{17}; \dfrac{27}{69}$
16. A has a smaller minuend than B and C. A is much smaller than D and E.
17. $36.9 - (7.68 + 6.54)$
18. $8080.008 - 8.08 = 8071.928$
19. $\dfrac{16}{16} - \dfrac{9}{16} = \dfrac{7}{16}$
20. A has the larger subtrahend than B and C and will be smaller. C is larger than D and E due to its larger minuend. Therefore A.
21. $19 \times 8 = 152$
22. $18 \div 2 = 9$
23. $-3 + 3 + 1$. Therefore 95.
24. $350 \times 15 = 5250$
25. $9\dfrac{1}{2} \div \dfrac{4}{3} < 9\dfrac{1}{2} \times \dfrac{4}{3}$