MATH 6 PRACTICE TEST 1

Name_____ Date_____

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

1. Billy grew 10 inches over the last year. If he is 5 ft. 2 in. now, how tall was he last year?
(**A**) 4 ft. 1 in. (**B**) 4 ft. 2 in. (**C**) 4 ft. 3 in. (**D**) 4 ft. 4 in. (**E**) 4 ft. 5 in.

2. Which will result in the largest remainder?
(**A**) $41 \div 4$ (**B**) $42 \div 4$ (**C**) $43 \div 4$ (**D**) $44 \div 4$ (**E**) $45 \div 4$

3. You get paid \$6 per hour for the first 40 hours that you work in a week and \$9 per hour for each additional hour that you work in a week. How much would you be paid if you worked 50 hours in a week?
(**A**) \$320 (**B**) \$330 (**C**) \$350 (**D**) \$390 (**E**) \$750

4. If a basketball goal is lowered 32 inches from a height of 10 feet, how many feet high will the goal be?
(**A**) $7\frac{1}{3}$ (**B**) $7\frac{1}{2}$ (**C**) $7\frac{2}{3}$ (**D**) $8\frac{1}{3}$ (**E**) $8\frac{2}{3}$

5. 2007 is not divisible by what number?
(**A**) 3 (**B**) 7 (**C**) 9 (**D**) 223 (**E**) 669

6. What value of *x* will produce the next number in the following sequence?
80 + 20, 20 + 30, 30 - 5, *x* - 12
(**A**) -0.5 (**B**) 0.5 (**C**) 12.5 (**D**) 24.5 (**E**) 25

7. Round 2499.9989 to the nearest thousands place.
(**A**) 2000 (**B**) 2499.009 (**C**) 2499.999 (**D**) 2500 (**E**) 3000

8. Jon, Mark, and Peter are on a relay team that is participating in a 10 mile relay. If Jon runs for 2.6 miles and Mark runs for 3.8 miles, how many miles would Peter have to run to complete the race?
(**A**) 2.6 (**B**) 3.4 (**C**) 3.6 (**D**) 4.4 (**E**) 4.6

9. Miller Elementary consists of 459 boys, 567 girls, and 38 teachers when everyone is present. If 14 students and 2 teachers are absent on the same day, how many students and teachers would be present in school?
(**A**) 938 (**B**) 948 (**C**) 1038 (**D**) 1048 (**E**) 1080

10. Jennifer bought 3 gallons of milk for \$2.19 per gallon. How much change would Jennifer get back if she gave the cashier a \$10 bill?
(**A**) \$3.43 (**B**) \$3.53 (**C**) \$4.43 (**D**) \$4.57 (**E**) \$6.57

11. If a racecar can travel at 239.99 miles per hour, how much faster will it need to travel to be able to reach 250.8 miles per hour?
(**A**) 10.19 (**B**) 10.81 (**C**) 10.99 (**D**) 11.81 (**E**) 11.99

12. Turtle A crawled 4 yards, 1 foot, 1 inch and Turtle B crawled 3 yards, 2 feet, 3 inches. How much farther did Turtle A crawl than turtle B?
(**A**) 1 ft. 8 in. (**B**) 1 ft. 9 in. (**C**) 1 ft. 10 in. (**D**) 8 ft. 8 in. (**E**) 1 yd. 1 ft. 2 in.

13. It takes 10 days for a group of teenagers to devour 220 pizzas. If each student can eat 2.75 pizzas per day, how many students are there in the group?
(**A**) 8 (**B**) 9 (**C**) 10 (**D**) 11 (**E**) 12

14. Write $\frac{18}{10}$ as a percent.
(**A**) 0.18% (**B**) 1.8% (**C**) 18% (**D**) $55.\overline{5}\%$ (**E**) 180%

15. A job requires 7 hours of work to complete. If you work for 3 hours and 36 minutes, how many hours do you have left?

(**A**) $3\frac{1}{3}$ (**B**) $3\frac{2}{5}$ (**C**) $3\frac{6}{25}$ (**D**) $3\frac{9}{25}$ (**E**) $4\frac{2}{5}$

16. Six yards has how many more inches than twelve feet?

(**A**) 6 (**B**) 72 (**C**) 108 (**D**) 120 (**E**) 140

17. Your bicycle wheel originally had 24 spokes but now it has 17. How much would it cost to fix your wheel if it costs 28 cents per spoke to fix?

(**A**) \$1.40 (**B**) \$1.68 (**C**) \$1.96 (**D**) \$2.24 (**E**) \$2.52

18. Leaves are falling off of a tree at a rate of 3 leaves every 20 minutes. How many leaves will fall off in 3 hours and 40 minutes?

(**A**) 27 (**B**) 30 (**C**) 33 (**D**) 36 (**E**) 39

19. David moved 4 cubic yards of dirt in 3 hours. How many hours would it take David to move 24 cubic yards assuming he works at the same rate?

(**A**) 12 (**B**) 15 (**C**) 16 (**D**) 18 (**E**) 23

20. A swimming pool conatains 2400 gallons of water. How many hours would it take to drain the pool if it can be drained at a rate of 10 gallons per minute?

(**A**) 3 (**B**) 4 (**C**) 5 (**D**) 6 (**E**) 7

21. A certain carpet costs \$8 per square yard. If \$240 is needed to carpet a room that is 15 feet long, how many feet wide is the room? Assume no extra carpet will need to be purchased.

(**A**) 9 (**B**) 12 (**C**) 15 (**D**) 18 (**E**) 21

22. Bob averaged 26 points a game for his first three basketball games. If Bob scored 30 points in game one and 24 points in game two, how many points did he score in game three?

(**A**) 23 (**B**) 24 (**C**) 25 (**D**) 26 (**E**) 27

23. Tom and Jerry are standing in a line of 247 people. If Tom is 129th from the front and Jerry is 80th from the back, how many people are between Tom and Jerry?

(**A**) 37 (**B**) 38 (**C**) 39 (**D**) 48 (**E**) 49

24. Three dogs each had 4 puppies. How many total dogs are there?

(**A**) 11 (**B**) 12 (**C**) 13 (**D**) 14 (**E**) 15

25. If you have x cats and y dogs, how many total cats and dogs do you have?

(**A**) x times y (**B**) x divided by y (**C**) x minus y (**D**) y minus x (**E**) x plus y

MATH 6 PRACTICE TEST 2

Name_____ Date_____

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

1. Which product is the greatest?
   (**A**) $4\times(6+8)$ (**B**) $24\times(1+1)$ (**C**) $8\times(4+2)$ (**D**) $3\times(10+9)$ (**E**) $1\times(27+28)$

2. Which would produce the greatest difference?
   (**A**) 672 - 468 (**B**) 672 - 469 (**C**) 672 - 470 (**D**) 672 - 471 (**E**) 672 - 472

3. What is the smallest number that can be written with the following digits? 3, 7, 2, 5
   (**A**) 2,735 (**B**) 2,573 (**C**) 2,537 (**D**) 2,375 (**E**) 2,357

4. Which has the greater value?
   (**A**) $\frac{1}{6}$ of 42 (**B**) $\frac{1}{10}$ of 80 (**C**) $\frac{1}{3}$ of 18 (**D**) $\frac{1}{4}$ of 28 (**E**) $\frac{1}{2}$ of 14

5. For 40,231.5789, which digit is in the thousandths place?
   (**A**) 0 (**B**) 2 (**C**) 4 (**D**) 8 (**E**) 9

6. $7\frac{8}{9}$ is the same as which improper fraction?
   (**A**) $\frac{65}{9}$ (**B**) $\frac{66}{9}$ (**C**) $\frac{71}{9}$ (**D**) $\frac{72}{9}$ (**E**) $\frac{79}{9}$

7. You ate $3\frac{1}{2}$ doughnuts and your brother ate $4\frac{1}{2}$ doughnuts. How many doughnuts remain if there were originally two dozen doughnuts?
   (**A**) 4 (**B**) 8 (**C**) 16 (**D**) 17 (**E**) 18

8. Which number would you have to divide 143 by to obtain a remainder of 5?
   (**A**) 3 (**B**) 4 (**C**) 5 (**D**) 6 (**E**) 7

9. When nobody is absent, there are 438 students and teachers at school. If the school auditorium seats 689 and there are 270 empty seats, how many students and teachers are absent that day?
   (**A**) 9 (**B**) 17 (**C**) 18 (**D**) 19 (**E**) 29

10. If it is 1:00 A.M. on a Monday morning, what day of the week was it 50 hours ago?
    (**A**) Wednesday (**B**) Thursday (**C**) Friday (**D**) Saturday (**E**) Sunday

11. Which will produce the smallest quotient?
    (**A**) $12\div2\frac{1}{2}$ (**B**) $12\div2\frac{3}{5}$ (**C**) $12\div2\frac{2}{5}$ (**D**) $12\div2\frac{7}{12}$ (**E**) $12\div2\frac{1}{4}$

12. What number does $(6\times1000)+(0\times100)+(4\times10)+(3\times1)$ equal?
    (**A**) 643 (**B**) 6043 (**C**) 6143 (**D**) 6403 (**E**) 60,043

13. If a foot-long hot dog is cut into 5 pieces of equal length, how many inches long is each piece?
    (**A**) $\frac{5}{12}$ (**B**) $2\frac{1}{4}$ (**C**) $2\frac{1}{3}$ (**D**) $2\frac{2}{5}$ (**E**) $7\frac{1}{5}$

14. Which number is the smallest?

(**A**) $\frac{4}{10}$ (**B**) $\frac{381}{1000}$ (**C**) $\frac{39}{100}$ (**D**) $\frac{37}{10}$ (**E**) $\frac{379}{1000}$

15. Which number is the largest?

(**A**) 0.293 (**B**) 0.39 (**C**) 0.1234 (**D**) 0.4 (**E**) 0.119

16. Which is the longest distance?

(**A**) 3 yards (**B**) 107 inches (**C**) 2 yards + 2 feet (**D**) 1 yard + 5 feet (**E**) 8 feet

17. You bought 13.4 gallons of gas at $1.05 per gallon, how much did you pay?

(**A**) $2.01 (**B**) $13.97 (**C**) $14.07 (**D**) $14.17 (**E**) $14.70

18. You received $\frac{2}{5}$ of the $28 that was owed to you. How much money is still owed to you?

(**A**) $11.20 (**B**) $16.80 (**C**) $17.80 (**D**) $18.80 (**E**) $70

19. Which fraction does not have the same value as the other four?

(**A**) $\frac{9}{24}$ (**B**) $\frac{6}{16}$ (**C**) $\frac{15}{40}$ (**D**) $\frac{18}{48}$ (**E**) $\frac{24}{72}$

20. What is the difference between thirteen and four hundredths, and five and six hundred-thousandths?

(**A**) 8.003994 (**B**) 8.039994 (**C**) 8.0394 (**D**) 8.03994 (**E**) 8.04006

21. If the perimeter of a rectangle is 40 and the length is 8, find the width.

(**A**) 10 (**B**) 12 (**C**) 14 (**D**) 16 (**E**) 32

22. Which is the smallest amount of fluid?

(**A**) 4 gallons (**B**) 17 quarts (**C**) 33 pints (**D**) 3 gallons + 17 cups (**E**) 63 cups

23. John hiccups 3 times every 15 seconds. How many times will John hiccup in two minutes at that rate?

(**A**) 12 (**B**) 18 (**C**) 24 (**D**) 30 (**E**) 36

24. If a circle has a radius of *b* inches, what will be the length of the diameter in inches?

(**A**) $2 \times b$ (**B**) $2 \div b$ (**C**) $b \div 2$ (**D**) $2 \times \pi \times b$ (**E**) $\pi \times b^2$

25. A clock is malfunctioning such that the minute hand moves 90 minutes every hour. If you set the clock at the correct time at 8:00 A.M., what time will your clock say it is at 2:00 P.M. of the same day?

(**A**) 3:00 P.M. (**B**) 4:00 P.M. (**C**) 5:00 P.M. (**D**) 6:00 P.M. (**E**) 7:00 P.M.

MATH 6 PRACTICE TEST 3

Name_____ Date_____

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

1. If it takes 8 glasses of water to fill a pitcher, how many glasses of water would it take to fill two and one-half pitchers?
(**A**) 16 (**B**) 18 (**C**) 20 (**D**) 22 (**E**) 24

2. Which quotient does not equal 4?
(**A**) $36 \div 9$ (**B**) $8 - 5$ (**C**) $24 \div 6$ (**D**) $32 \div 8$ (**E**) $20 \div 4$

3. You brought home $6\frac{7}{9}$ pizzas from the party and three days later, $2\frac{4}{9}$ of the pizzas remained. How many pizzas were consumed since you brought them home?
(**A**) $3\frac{3}{9}$ (**B**) $4\frac{1}{3}$ (**C**) $4\frac{1}{6}$ (**D**) $4\frac{1}{2}$ (**E**) $9\frac{2}{9}$

4. Bob is 4 years younger than Susie and Joe is 7 years older than Susie. How many more years older is Joe than Bob ?
(**A**) 3 (**B**) 4 (**C**) 10 (**D**) 11 (**E**) 12

5. What is the sum of the digit that is in the tens place and the digit that is in the hundredths place for 4,683.1257 ?
(**A**) 7 (**B**) 9 (**C**) 10 (**D**) 13 (**E**) 14

6. A rectangle has a width of 5 feet and a length of 7 feet.. Find the perimeter of the rectangle in *inches*?
(**A**) 24 (**B**) 35 (**C**) 144 (**D**) 288 (**E**) 420

7. Which set of fractions are arranged from decreasing to increasing order from left to right?
(**A**) $\frac{18}{63}, \frac{28}{49}, \frac{33}{77}$ (**B**) $\frac{18}{63}, \frac{33}{77}, \frac{28}{49}$ (**C**) $\frac{33}{77}, \frac{28}{49}, \frac{18}{63}$ (**D**) $\frac{33}{77}, \frac{18}{63}, \frac{28}{49}$ (**E**) $\frac{28}{49}, \frac{33}{77}, \frac{18}{63}$

8. Assuming there are 364 days in a year, how many days are there in 709 years?
(**A**) 5,824 (**B**) 28,756 (**C**) 28,776 (**D**) 258,076 (**E**) 258,096

9. Given $36 - 12 = 24$ and $30 \div 6 = 5$, find the sum of the divisor and the minuend.
(**A**) 19 (**B**) 40 (**C**) 42 (**D**) 43 (**E**) 66

10. Which is the greatest difference?
(**A**) $2 - 1\frac{1}{9}$ (**B**) $1 - \frac{2}{9}$ (**C**) $4 - 3\frac{3}{9}$ (**D**) $6 - 5\frac{4}{9}$ (**E**) $7 - 6\frac{5}{9}$

11. What is the difference between six and four-sevenths and three and two-sevenths?
(**A**) $2\frac{2}{7}$ (**B**) $3\frac{1}{7}$ (**C**) $3\frac{2}{7}$ (**D**) $3\frac{6}{7}$ (**E**) $9\frac{6}{7}$

12. Six-sevenths of the enrolled students were in school yesterday. If 840 students were enrolled in your school, how many students were in school yesterday?
(**A**) 72 (**B**) 120 (**C**) 620 (**D**) 720 (**E**) 820

13. Luke scored 15 points in his first game, 18 points in his second game, 23 points in his third game, and 16 points in his fourth game. What did Luke average in the four games?

(**A**) 17 (**B**) 18 (**C**) 18.5 (**D**) 19 (**E**) 20

14. If you have *c* cats and *d* dogs, how many cats and dogs do you have?

(**A**) $c \div d$ (**B**) $c \times d$ (**C**) $c - d$ (**D**) $d - c$ (**E**) $c + d$

15. Which of the following problems will have the greatest remainder?

(**A**) $670 \div 10$ (**B**) $670 \div 15$ (**C**) $670 \div 20$ (**D**) $670 \div 25$ (**E**) $670 \div 30$

16. $\frac{l}{m} \div \frac{n}{p} =$

(**A**) $\frac{l \times n}{m \times p}$ (**B**) $\frac{l \times p}{m \times n}$ (**C**) $\frac{l \times m}{n \times p}$ (**D**) $\frac{m \times n}{l \times p}$ (**E**) $\frac{m \times p}{l \times n}$

17. If your body temperature is 100.8° F today and yesterday it was 98.65° F, how much did your temperature increase?

(**A**) 1.15° F (**B**) 1.25° F (**C**) 2.05° F (**D**) 2.15° F (**E**) 2.25° F

18. Which is not equivalent to 624?

(**A**) 6.24×100 (**B**) $624{,}000 \div 1000$ (**C**) 0.624×1000 (**D**) $62.4 \div 10$ (**E**) $0.0624 \times 10{,}000$

19. $24.60 is evenly distributed among 12 people. How much money would each get?

(**A**) $1.15 (**B**) $2.05 (**C**) $2.41 (**D**) $2.50 (**E**) $205

20. Which number is less than fourteen and eight ten-thousandths?

(**A**) 14.00081 (**B**) 14.1 (**C**) 14.002 (**D**) 14.00079 (**E**) 14.001

21. How many whole numbers are there between but not counting -3 and 9.

(**A**) 8 (**B**) 9 (**C**) 10 (**D**) 11 (**E**) 12

22. What is the next number in the following sequence? 7.05, 14.1, 21.15, _____

(**A**) 28.2 (**B**) 28.25 (**C**) 28.3 (**D**) 28.4 (**E**) 28.65

23. What is the least common denominator for the fractions $\frac{1}{10}, \frac{3}{20}, \frac{4}{7}$

(**A**) 70 (**B**) 140 (**C**) 280 (**D**) 700 (**E**) 1400

24. If a train travels 320 miles in 8 hours, how much faster would the train have to travel in order to travel the 320 miles in 5 hours?

(**A**) 18 mph (**B**) 24 mph (**C**) 28 mph (**D**) 40 mph (**E**) 64 mph

25. On a map, two parallel roads are $2\frac{7}{8}$ inches apart. If $\frac{1}{2}$ inch equals 40 miles on the map, how many miles apart are the two roads?

(**A**) $\frac{23}{8}$ (**B**) 115 (**C**) 220 (**D**) 230 (**E**) 240

MATH 6 PRACTICE TEST 4

Name_____ Date_____

Directions: Complete as many problems as you can in the 30 minutes allotted to you. No calculators. If a problem appears to be time consuming, look for the shortcut!

1. Which has the greatest product?
   (**A**) $43{,}575 \times 904$ (**B**) $43{,}574 \times 905$ (**C**) $43{,}572.999 \times 906.001$ (**D**) $43{,}571.999 \times 907.001$ (**E**) $43{,}572.75 \times 906$

2. Which is the reciprocal of $4\frac{2}{3}$?
   (**A**) $\frac{1}{3}$ (**B**) $\frac{11}{3}$ (**C**) $\frac{3}{11}$ (**D**) $\frac{14}{3}$ (**E**) $\frac{3}{14}$

3. Which would produce the smallest quotient?
   (**A**) $\frac{7}{8} \div \frac{5}{16}$ (**B**) $\frac{7}{8} \div \frac{5}{8}$ (**C**) $\frac{7}{8} \div \frac{5}{3}$ (**D**) $\frac{7}{8} \div \frac{5}{32}$ (**E**) $\frac{7}{8} \div \frac{5}{7}$

4. Which results in the smallest difference?
   (**A**) $201.4 - 19.999$ (**B**) $201.11 - 19.999$ (**C**) $201.2 - 19.999$ (**D**) $201\frac{5}{8} - 19.999$ (**E**) $201\frac{7}{8} - 19.999$

5. What is the difference between three hundred two and seventeen hundredths, and thirty-nine and eight hundred fifty-eight thousandths?
   (**A**) 262.312 (**B**) 262.328 (**C**) 263.312 (**D**) 263.328 (**E**) 362.312

6. Which is the largest number?
   (**A**) 141.6 (**B**) 141.59 (**C**) 141.500 (**D**) 141.4322 (**E**) 141.58769

7. You need to paint 57.08 square feet of the wall. If each bottle of paint can cover 5 square feet, how many bottles of paint will you need to be able to complete the project?
   (**A**) 9 (**B**) 10 (**C**) 11 (**D**) 12 (**E**) 13

8. Round 4.499 to the nearest whole number.
   (**A**) 4 (**B**) 4.4 (**C**) 4.5 (**D**) 4.50 (**E**) 5

9. Which quantity is the smallest?
   (**A**) 28% (**B**) $\frac{7}{26}$ (**C**) 0.29 (**D**) $\frac{5}{13} + \frac{1}{13}$ (**E**) $\frac{4}{5} \cdot \frac{2}{5}$

10. Which is the largest quantity?
    (**A**) $178.6 + 178.6 + 178.6 + 178.6$ (**B**) 178.6×5 (**C**) $(4 \times 178.6) + 178.4$
    (**D**) $(3 \times 178.6) + 178.6 + 178.4$ (**E**) $(2 \times 178.6) + (2 \times 178.6) + 178.7$

11. A candy bar normally sells for 95 cents and you paid six-tenths of this amount. How much did you pay for the candy bar?
    (**A**) 55 cents (**B**) 57 cents (**C**) 59 cents (**D**) 61 cents (**E**) 63 cents

12. Which problem will produce the largest remainder?
    (**A**) $2{,}000{,}001 \div 3$ (**B**) $197{,}538{,}945 \div 5$ (**C**) $4{,}323{,}476 \div 2$ (**D**) $2000 \div 7$ (**E**) $2006 \div 7$

13. Which is the smallest number?
    (**A**) 2.89×10 (**B**) 0.289×100 (**C**) $0.000289 \times 10{,}000$ (**D**) $2890 \div 1000$ (**E**) 0.00289×100

14. Which has the largest GCF?

(**A**) 6 and 14 (**B**) 6 and 12 (**C**) 6 and 10 (**D**) 6 and 9 (**E**) 6 and 8

15. Which has the largest LCM?

(**A**) 4 and 3 (**B**) 4 and 5 (**C**) 4 and 6 (**D**) 4 and 7 (**E**) 4 and 8

16. Which has the greatest sum?

(**A**) $\frac{2}{7}+\frac{5}{5}$ (**B**) $\frac{3}{7}+\frac{4}{5}$ (**C**) $\frac{4}{7}+\frac{3}{5}$ (**D**) $\frac{5}{7}+\frac{2}{5}$ (**E**) $\frac{6}{7}+\frac{1}{5}$

17. In your rectangular shaped backyard, everything is grass except for your rectangular shaped pool. If the dimensions of the yard are 100 feet by 70 feet and the dimensions of the pool are 20 feet by 10 feet, find the area of the grass.

(**A**) 280 ft.^{2} (**B**) 500 ft.^{2} (**C**) 5800 ft.^{2} (**D**) 6800 ft.^{2} (**E**) 6940 ft.^{2}

18. Add $0.5+\frac{5}{9}$

(**A**) $\frac{6}{11}$ (**B**) $\frac{10}{9}$ (**C**) $\frac{11}{9}$ (**D**) $\frac{10}{19}$ (**E**) $\frac{19}{18}$

19. Your brother brought home $8\frac{2}{3}$ pizzas from work. On the first day, you ate $1\frac{1}{4}$ pizzas. If you ate $2\frac{2}{5}$ pizza on the second day, how much pizza was left?

(**A**) $5\frac{1}{60}$ (**B**) $5\frac{1}{3}$ (**C**) $5\frac{7}{60}$ (**D**) $5\frac{11}{60}$ (**E**) $5\frac{13}{60}$

20. Which is the greatest quotient?

(**A**) $0.6\div 2$ (**B**) $0.6\div 3$ (**C**) $0.06\div 2$ (**D**) $0.06\div 3$ (**E**) $0.87\div 3$

21. Which has the smallest *divisor*?

(**A**) $0.00089\div 2\frac{1}{2}$ (**B**) $0.88\div 2\frac{7}{8}$ (**C**) $0.90\div 2\frac{3}{5}$ (**D**) $0.4\div 1\frac{1}{2}$ (**E**) $0.8\div 1\frac{1}{3}$

22. If $\frac{8}{9}$ of water is oxygen, how many pounds of oxygen would there be in 72 pounds of water?

(**A**) 56 (**B**) 63 (**C**) 64 (**D**) 66 (**E**) 81

23. If m students share n cookies, how many cookies would each student get?

(**A**) $m+n$ (**B**) $m\times n$ (**C**) $m-n$ (**D**) $m\div n$ (**E**) $n\div m$

24. If $\frac{3}{4}\%$ of the parts are defective, what fraction of the parts are defective?

(**A**) 0.00075 (**B**) 0.75 (**C**) $\frac{3}{40}$ (**D**) $\frac{3}{400}$ (**E**) $\frac{3}{4000}$

25. Which does not have the same value as the others?

(**A**) $6\frac{3}{16}$ (**B**) 6.1875 (**C**) the reciprocal of $\frac{16}{99}$ (**D**) 618.75% (**E**) $6\div\frac{33}{32}$

MATH 6 PRACTICE TEST 1 ANSWERS

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

1. 5 ft. 2 in. - 10 in. = 4 ft. 14 in. - 10 in. = 4 ft. 4 in.
2. $43 \div 4$ will produce a remainder of 3 which is the highest.
3. $(40 \times 6) + (10 \times 9) = 240 + 90 = 330$
4. $10\text{ft} - 32\text{in} = 10\text{ft} - 2\frac{2}{3}\text{ft} = 7\frac{1}{3}\text{ft}$
5. 7
6. The sequence is 100, 50 25. The next term, $x - 12$, equals 12.5. Therefore $x = 24.5$.
7. 2000
8. $10 - (2.6 + 3.8) = 10 - 6.4 = 3.6$
9. 459 + 567 + 38 - 14 - 2 = 1048.
10. $10 - 3(2.19) = 10 - 6.57 = 3.43$
11. 250.80
    - 239.99
    10.81
12. 4 yd. 1 ft. 1 in. = 3 yd. 3 ft. 13 in.

    3 yd. 3 ft. 13 in.
    -3 yd. 2 ft. 3 in.
    1 ft. 10 in.
13. 220 pizzas per 10 days = 22 pizzas per day. $22 \div 2.75 = 8$ students.
14. $\frac{18}{10} = 1.8 = 180\%$
15. 6 hours 60 minutes
    - 3 hours 36 minutes

    3 hours 24 minutes = $3\frac{24}{60} = 3\frac{2}{5}$ hours
16. 6 yd. - 12 ft. = 18 ft. - 12 ft. = 6 ft. = 72 in.
17. $0.28(24 - 17) = 0.28(7) = 1.96$
18. 3 leaves every 20 minutes = 6 leaves every 40 minutes = 9 leaves every hour. Therefore 3 hr. 40 min. = 3 x 9 + 6 = 33
19. Since 24 cubic yards is 6 times as much dirt as 4 cubic yards, it would take 6 times as much time to move the dirt if it was moved at the same rate. Therefore 6 x 3 hours = 18 hours
20. $2400 \div 10 = 240$ minutes. $240 \div 60 = 4$ hours
21. $\frac{240}{8} = 30\text{yd}^2$ needed. $30\text{yd}^2 \cdot \left(\frac{3\text{ft}}{1\text{yd}}\right)^2 = 30 \cdot 9 = 270\text{ft}^2$. $\frac{270\text{ft}^2}{15\text{ft}} = 18\text{ft}$ wide.
22. $3 \cdot 26 - (24 + 30) = 78 - 54 = 24$
23. Since Tom is 129th from the front, these people are not between Tom and Jerry and need to be subtracted from 247 which leaves 118 people. Since Jerry is 80th from the back, these people are not between Tom and Jerry and need to be subtracted from the 118 remaining people which results in 38.
24. the number of dogs = the number of puppies + the number of mothers = $3 \times 4 + 3 = 12 + 3 = 15$
25. $x + y$

MATH 6 PRACTICE TEST 2 ANSWERS

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

1. $3\times(10+9)=3\times19=57$
2. No need to subtract any numbers. Since the minuends for all of the choices are the same, the problem with the smallest subtrahend will produce the greatest difference, which will be A.
3. 2,357
4. $\frac{1}{10}$ of 80 = 8
5. 8
6. C
7. $24-\left(3\frac{1}{2}+4\frac{1}{2}\right)=24-8=16$
8. $143\div6=23\text{ r }5$
9. $689-270=419$ present. $438-419=19$ absent
10. Friday
11. Since the dividends are the same, the largest divisor will produce the smallest quotient. Therefore B.
12. 6043
13. $\frac{12}{5}=2\frac{2}{5}$
14. $\frac{379}{1000}$
15. D
16. 3 yards = 9 feet = 108 inches
17. 13.4 x 1.05 = $14.07
18. $\frac{3}{5}$ is still owed to you. Therefore $\frac{3}{5}\cdot28=\frac{84}{5}=16.8=\$16.80$
19. A, B, C, and D all reduce to $\frac{3}{8}$. Therefore E
20. 13.04 - 5.00006 = 8.03994
21. $l+w=\frac{1}{2}\times P \;\rightarrow\; 8+w=20 \;\rightarrow\; w=12$
22. 63 cups
23. Three times every fifteen seconds will be twelve times every minute, which equals twenty-four in two minutes.
24. diameter = $2\times b$
25. The clock gains a half hour every hour. $6\times\frac{1}{2}=3$ hours gained. 2:00 P.M. + 3 = 5:00 P.M.

MATH 6 PRACTICE TEST 3 ANSWERS

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

1. $(8\times 2)+\left(\frac{1}{2}\times 8\right)=16+4=20$

2. $20\div 4$ Immediately the student should cross out choice B as a possible answer because it is a difference, not a quotient. Even though choice B does not equal four, it cannot be the answer because it is not even a quotient. The question informs the student to look for a quotient. The greatest lesson the student can learn from this question is to read carefully!

3. $6\frac{7}{9}-2\frac{4}{9}=4\frac{3}{9}=4\frac{1}{3}$

4. $7+4=11$

5. $8+2=10$

6. $(2\times 12)\times 12=288$

7. Reducing choice A yields $\frac{2}{7},\frac{4}{7},\frac{3}{7}$. Therefore B

8. $364\times 709=258{,}076$

9. 36 + 6 = 42

10. $2-1\frac{1}{9}$ will produce the greatest difference.

11. $6\frac{4}{7}-3\frac{2}{7}=3\frac{2}{7}$

12. $\frac{6}{7}\times 840=\frac{6}{1}\times 120=720$

13. $\frac{15+18+23+16}{4}=\frac{72}{4}=18$

14. $c+d$

15. $670\div 25$

16. $\frac{l}{m}\div\frac{n}{p}=\frac{l}{m}\times\frac{p}{n}=\frac{l\times p}{m\times n}$

17. 100.8 - 98.65 = 2.15

18. $62.4\div 10=6.24$

19. $24.6\div 12=2.05$

20. 14.00079

21. 0,1,2,3,4,5,6,7,8 Therefore 9

22. 7.05 + 7.05 = 14.1; 14.1 + 7.05 = 21.15; 21.15 + 7.05 = 28.2

23. LCM = 5 x 2 x 2 x 7 = 140

24. $320\div 8=40$ and $320\div 5=64$. 64 - 40 = 24 mph

25. $40\left(2\frac{7}{8}\div\frac{1}{2}\right)=40\left(\frac{23}{8}\times\frac{2}{1}\right)=40\times\frac{23}{4}=10\times 23=230$

MATH 6 PRACTICE TEST 4 ANSWERS

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

1. No pencil is needed. From choice A to choice D, the factor on the right increases by approximately 1 which will increase each product by over 40,000 form the previous choice. Also from choice A to choice D, the factor on the left decreases by approximately 1 which decreases each product by under 1000 from the previous choice. Therefore from left to right, the choices will increase by about 40,000 each. Therefore D is larger than A, B, or C. Since both factors of C are larger than both factors of E, choice C is greater than choice E. Therefore choice D has the greatest product.

2. $4\frac{2}{3} = \frac{14}{3}$ The reciprocal of $\frac{14}{3}$ is $\frac{3}{14}$.

3. No pencil is needed. Since all of the dividends are the same, the largest divisor will produce the smallest quotient. Therefore C.

4. No pencil is needed. Since all of the subtrahends are the same, the smallest minuend will produce the smallest difference. Therefore B.

5. $302.17 - 39.858 = 262.312$

6. A

7. $57.08 \div 5 = 11.416$ Since you will need more than 11 bottles, the fewest number of bottle needed would be 12.

8. 4

9. Choice A = $28\% = \frac{28}{100} = \frac{7}{25}$. Therefore choice B is smaller because it has the larger denominator (numerators are equal).

Since choice A = 0.28 and is less than choice C, choice C is eliminated. Choice D = $\frac{6}{13} = \frac{12}{26}$ which is larger than choice B.

Choice E = $\frac{8}{25}$ which is larger than choice B.

10. No pencil is necessary on this one. Choice B can be written so that it contains 5 addends of 178.6, which is larger than choice A. Choice C can be written so that it has 4 addends of 178.6 and one addend of 178.4 and therefore is smaller than choice B. Choice D can be written exactly as choice C which also will be smaller than choice B. Choice E will be larger than choice B because it can be written with 4 addends of 178.6 and one addend of 178.7.

11. $0.6 \times 95 = 57$

12. The first 3 choices, the students do not have to do any division. The sum of the digits in choice A is divisible by 3. Therefore choice A is divisible by three and will have a remainder of 0. The digit in the ones place of choice B is a 5. Therefore choice B will be divisible by 5 and will have a remainder of 0. The digit in the ones place of choice C is divisible by 2. Therefore choice C has a remainder of 0. Choice D will have a remainder of 5. Since 2000 has a remainder of 5 when dividing by 7, 2007 will also have a remainder of 5. Therefore 2006 will have a remainder of 4. Therefore choice D will have the largest remainder.

13. Choice E will = 0.289 which is the smallest.

14. Choice B has the largest GCF which is 6.

15. Choice D will have the largest LCM which is 28.

16. No pencil is necessary. From choice A to choice E, each choice increases by $\frac{1}{7}$ but decreases by $\frac{1}{5}$,which results in a smaller number. Therefore A

17. $(70 \times 100) - (10 \times 20) = 7000 - 200 = 6800$

18. $\frac{1}{2} + \frac{5}{9} = \frac{9}{18} + \frac{10}{18} = \frac{19}{18}$

19. $8\frac{2}{3} - \left(1\frac{1}{4} + 2\frac{2}{5}\right) = 8\frac{2}{3} - 3\frac{13}{20} = 5\frac{1}{60}$

20. When comparing choice A and choice B, choice A is greater because it has a smaller divisor. Therefore B is eliminated. When comparing choice C and D, D is eliminated by the same reasoning. When comparing A with C, C is eliminated because its dividend is smaller.
Choice A = 0.3 and choice E = 0.29. Therefore A is the largest.

21. Choice E has the smallest divisor.

22. $\frac{8}{9} \times 72 = 8 \times 8 = 64$

23. $n \div m$

24. $\frac{3}{4}\% = 0.75\% = 0.0075 = \frac{75}{10000} = \frac{3}{400}$

25. Students should be able to simply right down the answer on this one. Choice E = $6 \times \frac{32}{33}$ which will obviously be less than 6 and therefore cannot be equal to choices A, B, or D. Therefore E.