Emily Griffith Technical College  
TABE Math Practice Test

This test will give you a good idea of what to expect on the math test for program entry. Not all programs require a math test, so talk to your advisor to be sure. The Practical Nursing Program requires a different practice test. Use of calculator on TABE exam is not allowed.

**Hint: Reduce fractions to lowest terms and round decimals to the hundredths place**

Select the best answer for each problem. The correct answers are given at the end of the test.

1. \(85 + 5,807 =\)
   a. 6,882  
   b. 4,892  
   c. 5,892  
   d. 5,882

2. \(425 - 36 =\)
   a. 389  
   b. 461  
   c. 456  
   d. 489

3. \(79 + 18 =\)
   a. 97  
   b. 107  
   c. 106  
   d. 98

4. Rose spent $6.95 at the music store and $34.95 at the shoe store. How much did she spend?
   a. $41.90  
   b. $42.90  
   c. $41.80  
   d. $41.60

5. Ernestine has saved $295 to buy a new refrigerator. The refrigerator costs $528. How much more does she need to save?
   a. $333  
   b. $223  
   c. $233  
   d. $133

6. \(58 \times 7 =\)
   a. 416  
   b. 406  
   c. 356  
   d. 392

7. \(56 \div 4 =\)
   a. 14  
   b. 24  
   c. 26  
   d. 13

8. \(295 \times 2 =\)
   a. 480  
   b. 580  
   c. 590  
   d. 490

9. Bernard needs 27 slats to finish his fence. He has 56 in his truck. How many can he return to the lumber yard?
   a. 39  
   b. 28  
   c. 27  
   d. 29

10. Last year a company sold 47 pianos. This year they hope to double their sales. How many pianos do they hope to sell?
    a. 49  
    b. 94  
    c. 84  
    d. 92

11. Tim has 13 books about motorcycles, 57 comic books and 15 graphic novels. How many books does he have in all?
    a. 85  
    b. 95  
    c. 120  
    d. 125

12. Cathy earned $87.29 last week. She earned $109.37 this week. How much more did she earn this week than last week?
    a. $21.08  
    b. $22.18  
    c. $22.07
13. Linda packed a box of books that weighed 16 pounds. If she packed 8 boxes of equal size in an hour, how many pounds of books will she have packed?
   a. 134 lbs.
   b. 118 lbs.
   c. 122 lbs.
   d. 128 lbs.

14. The restaurant staff is going to split the tips for the evening’s work. The tip pool contains $180.75 to be divided evenly between 13 people. About how much does each person get?
   a. $13.85
   b. $13.90
   c. $14.00
   d. $13.73

15. Sergio bought a sweater for $29.00. The tax on his purchase was 8%. What did he pay for the new sweater?
   a. $31.32
   b. $32.23
   c. $32.32
   d. $33.21

16. Kristi’s perm cost $65.00. She paid 6% tax and she tipped the stylist 15%. How much did she pay?
   a. $78.65
   b. $78.00
   c. $79.00
   d. $79.65

17. A recipe calls for these dry ingredients: 2 1/4 cups flour, 1/8 cup cocoa and 1 1/2 cup granulated sugar. What is the total amount of these ingredients?
   a. 2 7/8 cups
   b. 3 7/8 cups
   c. 2 5/8 cups
   d. 2 1/2 cups

18. Fred wants to re-sod part of his lawn. His front yard is 30 ft. long by 15 ft. wide. His side yard is 12 ft. long by 4 ft. wide. How much sod does Fred need to order?
   a. 450 sq. feet
   b. 48 feet

19. Reduce 6/24 to its lowest term.
   a. 1/4
   b. 3/8
   c. 1/6
   d. 3/6

20. 25% is equivalent to which fraction?
   a. 3/4
   b. 1/4
   c. 2/3
   d. 3/8

21. Which of the following numbers is smallest?
   a. 2/3
   b. 3/5
   c. 1/10
   d. 4/15

22. 2/3 + 3/4 =
   a. 6/12
   b. 17/12
   c. 1 5/12
   d. 1 7/12

23. 5.8 ÷ 3.6 =
   a. 1.51
   b. 16.1
   c. 1.61
   d. 1.15

24. 46.5 ÷ 12 =
   a. 3.80
   b. 3.87
   c. 3.88
   d. 4.88

25. -98.13 - 47.65 =
   a. 144.78
   b. -144.78
   c. 145.78
   d. -145.78

26. $14.59 + (-$16.37) =
   a. -$1.78
   b. $1.78
   c. $1.87
   d. -$1.87

27. -203 x 49 =

28. 12.3 - 8.7 =
   a. 3.6
   b. 4.6
   c. 3.5
   d. 4.5

29. 120/15 =
   a. 8
   b. 7
   c. 9
   d. 10
28. \(-34 \div 12 = \)
   a. \(2.733\)
   b. \(-2.83\)
   c. \(-2.82\)
   d. \(-2.84\)

29. The balance in Alice's checkbook was $35.17. She then entered two $254.39 deposits. Then, she wrote a check for $659.45. How much money will she have to deposit to bring her balance to $55.00?
   a. $155.50
   b. $170.00
   c. $170.50
   d. $175.00

30. George drove 4.3 miles to his first stop, 5.7 miles to his next stop, 3.8 miles to his third stop, 2.9 miles to his fourth, and 6.7 miles to his final stop. How many miles did he drive?
   a. 22.3
   b. 24.4
   c. 23.4
   d. 23.5

31. The shipping container measures 10 feet long by 10 feet wide by 12 feet high. What is the volume of the container?
   a. 1,200 sq. feet
   b. 1,300 cu. feet
   c. 1,250 feet
   d. 1,200 cu. feet

32. To make a dress for her daughter's wedding, Viola needs 11 2/3 yards of satin, 5 1/8 yards of lace, 7 1/4 yards of tulle. How much fabric does she need in all?
   a. 23 3/4 yards
   b. 24 1/4 yards
   c. 24 1/24 yards
   d. 24 3/4 yards

33. The fabric for Viola's dress costs $83.41, and the pattern and notions cost $17.63. It took 15 hours to make. Figuring her time is worth $16.50 an hour, how much did it cost for Viola to make the dress?
   a. $347.50
   b. $247.50
   c. $348.54
   d. $347.54

34. Theresa is taking a trip. Her suitcase cannot weigh more than 44 pounds. If it currently weighs 27 pounds, how many pounds of souvenirs can she bring home?
   a. 17
   b. 18
   c. 19
   d. 20

35. Juan is checking an invoice for his job. He counts 6 flats of Petunias. Each flat contains 36 plants and costs $26.95. Figuring in a 12% delivery fee, how much should be paid for the delivery?
   a. $161.70
   b. $161.74
   c. $167.40
   d. $181.10

36. Due to the draught, the water level in a lake is going down at the rate of 6.02 centimeters per year. If climate conditions don’t change, what is the best estimate of how much water will be lost in 5.75 years?
   a. 32.61 centimeters
   b. 32.62 centimeters
   c. 34.62 centimeters
   d. 36.42 centimeters

Flip Page for More Practice.
This map shows distances in kilometers between several towns. Study the map. Then do Numbers 37-41. *(The map is not drawn to scale).*

37. While driving through one of the towns, you see this sign. What town are you in?

<table>
<thead>
<tr>
<th>Town</th>
<th>Distance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fort Lancaster</td>
<td>47.4</td>
</tr>
<tr>
<td>Buckingham</td>
<td>49.2</td>
</tr>
<tr>
<td>Peak View</td>
<td>42.1</td>
</tr>
</tbody>
</table>

a. Stone’s Throw  
b. Johnsonville  
c. Hurst  
d. Buckingham

38. If you were to drive on the roads around the outside edge of this map, how many total kilometers would you travel?

a. 147.1 kilometers  
b. 137.6 kilometers  
c. 141.7 kilometers  
d. 138.1 kilometers

40. What kind of polygon do the outer roads form? *(Hint: how many sides does the shape have?)*

a. A pentagon  
b. A hexagon  
c. A rhombus  
d. A trapezoid

41. How many triangles are there in this map?

a. 3  
b. 4  
c. 5  
d. 6
Study the diagram below. Then answer questions 42-44

Students who live in Smith Hall cut across the lawn (double line) rather than use the paved walkways to get to the Student Union for meals.

42. If both of the paved walkways are 30 feet long, approximately how long is the shortcut?
   a. 40 ft
   b. 30 ft
   c. 35 ft
   d. Not enough information is given.

43. About how much shorter is the shortcut than the walkways?
   a. 15 ft
   b. 16 ft
   c. 19 ft
   d. 20 ft

44. Holy Oak College has decided to build a new addition onto the Science Building. The addition is exactly 1/4 the size of the original building. What is the area of the new addition?
   a. 1,010.1 sq ft
   b. 1,011.5 sq ft
   c. 1,012.5 sq ft
   d. 1,013.1 sq ft
The Economy Tours Company rents bicycles to tourists so they can tour Washington D.C. on their own or with an experienced guide. Their rates are shown in the chart below. Read the information, then answer questions 45-50.

<table>
<thead>
<tr>
<th>Economy Tours</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Segue Rental:</strong></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td><strong>Rental includes the following:</strong></td>
</tr>
<tr>
<td><strong>TOUR ON YOUR OWN OR WITH ONE OF OUR EXPERT GUIDES!</strong></td>
</tr>
<tr>
<td><strong>Silver Package:</strong></td>
</tr>
<tr>
<td><strong>Gold Package:</strong></td>
</tr>
<tr>
<td><strong>Picnic lunches are $15.00 each and come in an insulated pack. Ask for a menu.</strong></td>
</tr>
<tr>
<td><strong>Insurance (optional)</strong></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
</tbody>
</table>

45. A family of five is renting bikes for the day. They have chosen to tour on their own, without a guide, but want to purchase a picnic lunch for everyone. Which of the following equations represents the amount they will pay? *Hint: T stands for total cost and m stands for miles.*
   - a. $T = (5 \times 35.00) + 5(0.10m) + (5 \times 15.00)$
   - b. $T = (5 \times 35.00) + (5 \times 15.00) + 0.10m$
   - c. $T = (5 \times 35.00) + (10m) + 20.00$
   - d. $T = (5 \times 1.10m) + (5 \times 20.00) + (5 \times 15.00) + 35.00$

46. Brady sold a family of six the basic bike rental and six lunches before 10:00am. He also sold two Gold Packages that morning, three Silver Packages in the afternoon, and took an order that evening for four Gold Packages the next day. Not counting the money for the mileage charge for the family, how much money did he make for the company in one day?
   - a. $3,450$
   - b. $4,350$
   - c. $3,150$
   - d. $3,350$

47. Economy tours made a profit of $60,055.00 the first year it was in business. The next year, because of the economy, they made a profit of $54,380.00. About what percent did their profits drop between the first year and the second year?
   - a. 9.8%
   - b. 9.4%
   - c. 10%
   - d. 9.3%

48. Which of the following options would be the least expensive for a family of six—two parents, a pair of 15 year-old twins, one 10-year-old and a 6-year-old?
   - a. Option #1 – Buy the picnic lunches from Economy Tours.
   - b. Option #2 – Have lunch at a mid-range restaurant, averaging $16.50 per person.
   - c. Option #3 – Eat at McDonald’s, averaging $7.49 per person.
d. Option #4 – Eat at a buffet restaurant with a sliding price range—$10.50 for adults (12 and over), children (7-11 years) $7.50, 6 and under eat free.

The following is the menu from which Economy Tours customers can choose their picnic lunch. Read it and answer questions 49 and 50.

<table>
<thead>
<tr>
<th>Sandwiches</th>
<th>Sides</th>
<th>Fruit</th>
<th>Desserts</th>
<th>Optional Drinks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Beef</td>
<td>Potato Chips</td>
<td>Apple</td>
<td>Chocolate Cake</td>
<td>Coke Products</td>
</tr>
<tr>
<td>Chicken</td>
<td>Fritos</td>
<td>Orange</td>
<td>Carrot Cake</td>
<td>Gatorade</td>
</tr>
<tr>
<td>Pulled Pork</td>
<td>Doritos</td>
<td>Banana</td>
<td>Lemon Bar</td>
<td>Tea</td>
</tr>
<tr>
<td>Turkey</td>
<td>Ham</td>
<td>Pear</td>
<td>Cup Cake</td>
<td>Juice</td>
</tr>
</tbody>
</table>

*Additional Items Available for $1.00 Each*

49. How many different combinations are possible on this menu?
   a. 690
   b. 850
   c. 960
   d. 975

50. The Burke family is going on a tour and bought Economy Tours’ lunches. They requested four extra pieces of fruit and five extra bottles of water. How much did their meals cost?
   a. $69.00
   b. $84.00
   c. $39.00
   d. Not enough information is given.
There are 50 pieces of candy in the bowl on the counter at the bank. Following is a list of the number of candies in each flavor. Read the information and answer questions 51-53.

<table>
<thead>
<tr>
<th>Flavor</th>
<th>Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lemon</td>
<td>7</td>
</tr>
<tr>
<td>Watermelon</td>
<td>8</td>
</tr>
<tr>
<td>Cherry</td>
<td>11</td>
</tr>
<tr>
<td>Butterscotch</td>
<td>18</td>
</tr>
<tr>
<td>Cinnamon</td>
<td>2</td>
</tr>
<tr>
<td>Grape</td>
<td>4</td>
</tr>
</tbody>
</table>

51. What percent of the candies are cinnamon-flavored?
   a. 2%
   b. 4%
   c. 6%
   d. 8%

52. What are your chances of selecting a grape-flavored candy?
   a. 1/25
   b. 3/25
   c. 2/25
   d. 4/25

53. If you remove all of the candies that are not fruit-flavored, what is the percentage that you will select a grape-flavored candy?
   a. 6%
   b. 10%
   c. 13%
   d. 17%

What are the next numbers in the following sequences?

54. 1 5 9 13 ___ ___
   a. 17, 21
   b. 15, 19
   c. 16, 20
   d. 17, 20

55. 23 7 25 5 27 3 ___ ___
   a. 29, 7
   b. 31, 1
   c. 31, 3
   d. 29, 1

Robert loves a good bargain. Which of the three sweaters is discounted by 30%?
   a. The $78.00 sweater
   b. The $65.00 sweater
   c. The $44.00 sweater
   d. Not enough information given
Read the following information, then answer questions 57-60.

Ike has been eating out a lot, and is worried about how much it is costing him. Here is a chart he made of the cost of dining out for one week.

<table>
<thead>
<tr>
<th>Lunches</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Monday</td>
<td>$6.95</td>
</tr>
<tr>
<td>Tuesday</td>
<td>$7.83</td>
</tr>
<tr>
<td>Thursday</td>
<td>$9.58</td>
</tr>
<tr>
<td>Saturday</td>
<td>$5.54</td>
</tr>
<tr>
<td>Sunday</td>
<td>$11.76</td>
</tr>
</tbody>
</table>

57. What is the average price of the meals he ate in restaurants?
   a. $8.33  
   b. $8.57  
   c. $9.57  
   d. $7.35

58. What is the median price of the meals he ate in restaurants?
   a. $7.83  
   b. $8.57  
   c. $9.58  
   d. $11.76

59. How much money would Ike save by eating out only on weekends?
   a. $16.30  
   b. $17.41  
   c. $14.78  
   d. $24.36

To save money, Ike went grocery shopping and planned his meals for the next week. His total grocery bill was $135.30. He figures he can get 15 meals out of his purchase.

60. What is the average cost of his home-cooked meal?
   a. $10.53  
   b. $9.02  
   c. $9.35  
   d. $11.45

Read the graph below, then answer questions 61-64

**DOMESTIC WATER CONSUMPTION**
**SUMMIT, OREGON**
**JUNE-SEPTEMBER, 2002 and 2003**
**IN 100,000s of GALLONS**

61. Which two months show about the same amount of water use?
   c. July & August, 2002  
   d. July & June, 2002

62. What was the general trend in water use in the months of June, July, and August for both years?
   a. It stayed the same.  
   b. It decreased.  
   c. It increased.  
   d. Not enough information is given.

63. What is the approximate amount of increase or decrease in water consumption between June, 2002 and September, 2002?
   a. There was a 50,000 gal increase  
   b. There was a 75,000 gal increase  
   c. There was a 75,000 gal decrease  
   d. Not enough information is given.

64. What does the data for September, 2003 tell us when compared to the data from June, 2003?
   a. Temperatures were cooler  
   b. People used more water  
   c. People used less water  
   d. Not enough information is given.
Questions 65 and 66 are based on the illustration below.

65. To determine the distance across a river, surveyors made the diagram below. What is the width of the river in yards?
   a. 140 yds  
   b. 150 yds  
   c. 200 yds  
   d. 160 yds

66. In order to build a bridge across the river, the engineers have to place pylons two yards out from the edge of the river on both sides. How far apart will the pylons be?
   a. 144 yds  
   b. 150 yds  
   c. 154 yds  
   d. 204 yds

Use the ruler below to answer questions 67 and 68.

67. What is the distance, in inches, from point A to point B?
   a. 1 1/4 in  
   b. 1 1/2 in  
   c. 1 3/8 in  
   d. 1 5/8 in

68. Bud cut a piece of window trim 2 5/8 inches long. He needed one 4 3/8 inches long. How much longer does the second piece of trim have to be?
   a. 3/4 in  
   b. 1 1/4 in  
   c. 1 1/2 in  
   d. 1 3/4 in
Read the timetable below and answer questions 69 and 70.

<table>
<thead>
<tr>
<th>M&amp;M Bus Company Schedule</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Departure</strong></td>
</tr>
<tr>
<td>Denver</td>
</tr>
<tr>
<td>Colorado Springs</td>
</tr>
<tr>
<td>Pueblo</td>
</tr>
<tr>
<td>Walsenburg</td>
</tr>
<tr>
<td>Fort Garland</td>
</tr>
<tr>
<td>Del Norte</td>
</tr>
<tr>
<td>Alamosa</td>
</tr>
<tr>
<td>Pagosa Springs</td>
</tr>
</tbody>
</table>

*Hint: To tell time on a 24 hour clock, subtract 1200 from each time labeled 1300 or more. This will give you the time as it would be on a 12 hour clock.*

69. Sam is taking the bus from Denver to visit family in Alamosa. How long will the trip take?
   a. 8 hours  
   b. 8 1/2 hours  
   c. 9 hours  
   d. 9 3/4 hours

70. To save money, Rebecca took the bus instead of the train from Pueblo to Durango. How long did it take for the bus to make a trip?
   a. 7 1/2 hours  
   b. 8 hours  
   c. 8 3/4 hours  
   d. 9 3/4 hours
1. C  34. A  57. A
2. A  35. D  58. A
3. A  36. C  59. D
5. C  38. C
6. B  39. A
7. A  40. B
8. C  41. B
9. D  42. A
10. B  43. D
11. A  44. C
12. D  45. A
13. D  46. C
14. B  47. B
15. A  48. C
16. A  49. C
17. B  50. D
18. C  51. B
19. A  52. C
20. B  53. C
21. C  54. A
22. C  55. D
23. C  56. B
24. C  57. A
25. D  58. A
26. A  59. D
27. A  60. B
28. B  61. A
29. C  62. C
30. C  63. B
31. D  64. C
32. C  65. C
33. C  66. D