Foundational Numeracy

Initial Assessment

Name: _____

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Developed for Alberta's Community Adult Learning Program

COMMUNITY ADULT LEARNING PROGRAM

Funded by Alberta Advanced Education

Alberta Advanced Education

NORQUEST COLLEGE

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Instructions:

Choose the best answer to each question. You **may not** use a calculator for this exam. Answer your questions on the answer sheet provided.

You do not need to complete the entire assessment, answer only the questions you can and stop when the questions get too difficult.

If you don't know an answer, you do not need to guess.

You have **60 minutes** to complete this test. Work quickly but carefully.

Whole Numbers

1. What number is represented by the phrase "three hundred five thousand, four hundred forty"?

    a. 300 400
    b. 305 404
    c. 305 440
    d. 350 440

2. Write the number 146 982 in words

    a. One hundred forty-six thousand, ninety-eight hundred two
    b. Fourteen hundred six thousand, nine hundred eighty-two
    c. One hundred forty-six thousand, nine eighty-two
    d. One hundred forty-six thousand, nine hundred eighty-two

3. John wrote a report about drive-in theatres. He used the chart to report the countries with the most theatres after the United States.

Drive-In Theatres

Country	Number of Theatres
Brazil	18
Canada	132
Germany	20
Venezuela	15

How would he report the countries with the greatest number of theaters to the least number of theaters?

    a. Brazil, Canada, Germany, Venezuela
    b. Canada, Germany, Brazil, Venezuela
    c. Venezuela, Brazil, Germany, Canada
    d. Canada, Brazil, Germany, Venezuela

4. Use the chart to determine the total number of whales, spotted owls, and sea turtles left in the world. Round your answer to the nearest ten-thousand.

Endangered Animals	**Number Left**
Whales	62 703
Spotted Owls	6 290
Sea Turtles	79 394

a. 145 000
b. 148 000
c. 150 000
d. 160 000

5. 234 + 45 + 761 =

a. 930
b. 1 040
c. 1 345
d. 1 445

6. 6 059
+ 1 043

a. 7 096
b. 7 102
c. 7 202
d. 8 002

7. 466 – 358 =

a. 128
b. 112
c. 118
d. 108

8. Colin and Jo Beth both collect baseball cards. Colin has 703 cards and Jo Beth has 497 cards. What is the difference between the number of cards that they have?

    a. 206
    b. 294
    c. 394
    d. 1 200

9. 107
   X 28

    a. 8 084
    b. 2 996
    c. 856
    d. 476

10. 224 ÷ 4 =

    a. 50 R6
    b. 55
    c. 56
    d. 56 R5

Fractions

11. Change $6\frac{3}{5}$ to an improper fraction.

    a. $\frac{33}{6}$

    b. $\frac{33}{5}$

    c. $\frac{22}{5}$

    d. $6\frac{5}{3}$

12. Find the sum $\frac{5}{16}+\frac{7}{16}$

    a. $\frac{12}{32}$

    b. $\frac{5}{6}$

    c. $\frac{13}{16}$

    d. $\frac{3}{4}$

13. Find the sum $2\frac{1}{2}+5\frac{5}{6}$

    a. $7\frac{1}{3}$

    b. $8\frac{1}{3}$

    c. $7\frac{3}{4}$

    d. $8\frac{3}{4}$

14. Find the difference $\frac{5}{8}-\frac{1}{6}=$

    a. 2

    b. $\frac{1}{6}$

    c. $\frac{11}{24}$

    d. $\frac{9}{24}$

15. Find the difference $9\frac{1}{4} - 4\frac{2}{3} =$

    a. $4\frac{7}{12}$

    b. $5\frac{1}{6}$

    c. $5\frac{11}{12}$

    d. $4\frac{9}{24}$

16. Multiply: $\frac{2}{3} \times \frac{5}{8}$

    a. $\frac{5}{12}$

    b. $1\frac{1}{15}$

    c. $\frac{10}{27}$

    d. 1

17. Multiply: $5\frac{2}{5} \times 2\frac{2}{9}$

    a. $\frac{15}{18}$

    b. $10\frac{4}{45}$

    c. 12

    d. $2\frac{43}{100}$

18. Divide: $\frac{3}{5} \div \frac{1}{3}$

    a. $\frac{1}{5}$

    b. $\frac{4}{5}$

    c. $1\frac{4}{5}$

    d. 5

19. There were $6\frac{2}{3}$ kilograms of chicken left after the banquet. If there are 5 workers, how much chicken will each worker get to take home?

    a. $\frac{3}{4}$ kg

    b. $\frac{5}{8}$ kg

    c. $1\frac{1}{3}$ kg

    d. $2\frac{1}{2}$ kg

20. Isabel has used $5\frac{1}{4}$ metres of plastic edging to go around her rock garden. If she started with 10 metres of edging how much edging does she have left?

    a. $5\frac{3}{4}$

    b. $4\frac{3}{4}$

    c. $6\frac{1}{2}$

    d. 5

Decimals

21. Write in numbers four thousand, fifty five and seventy eight hundredths in numerals.

    a. 4 550.87
    b. 455.78
    c. 4 055.78
    d. 405 478

22. Add: 15.168 + 4.39 + 101.6

    a. 120.148
    b. 121.158
    c. 122.138
    d. 122.158

23. Subtract 99.57 – 87.61

    a. 11.36
    b. 12.16
    c. 12.36
    d. 11.96

24. Multiply:
    $$\begin{array}{r} 2.8 \\ \times\ 3.6 \end{array}$$

    a. 6.4
    b. 6.48
    c. 7.38
    d. 10.08

25. Divide 9.81 ÷ 9

    a. 1.09
    b. 0.19
    c. 1.19
    d. 10.9

26. Find the quotient: $3.162 \div 0.6$

    a. 0.0527
    b. 0.527
    c. 5.27
    d. 52.7

27. A TV cost $488.95 last year. The same TV costs $49.89 more this year. How much will you pay for the TV this year?

    a. $987.85
    b. $548.84
    c. $493.94
    d. $538.84

28. Mike, Mable, and Hazel decided to go together and buy one birthday present for Jessica. They spent $28.20 for the gift. How much did each person have to chip in?

    a. $7.05
    b. $7.50
    c. $8.40
    d. $9.40

29. Aisha is paid $9.25 per hour for babysitting. If she baby sits for 11 hours this week, how much will she earn?

    a. $101.75
    b. $100.75
    c. $9.36
    d. $99.25

30. Multiply: 9.3×1000

    a. 9 300
    b. 930
    c. 93
    d. 93 000

Integers

31. (-11) + 16 = _____

    a. -27
    b. -5
    c. 5
    d. 27

32. Simplify: (-5) − 18 = _____

    a. 13
    b. -13
    c. -23
    d. 23

33. Simplify: (-8) + 17 + (-12) = _____

    a. -37
    b. -3
    c. 3
    d. 37

34. Find the product: -9 x 7

    a. 16
    b. -16
    c. -63
    d. 63

35. Simplify: -75 ÷ - 25

    a. -3
    b. 3
    c. $-\frac{1}{3}$
    d. $\frac{1}{3}$

36. Solve: 42 ÷ 6 + 2 x 4 – 7

a. 25
b. 28
c. 8
d. -7

37. Find the quotient: 3.162 ÷ -0.6

a. -5.27
b. 0.527
c. 5.27
d. 52.7

38. Simplify and reduce to the lowest terms if possible. $\left(-\frac{13}{5}\right)-\left(-\frac{12}{5}\right)$

a. -5
b. $-\frac{1}{5}$
c. $\frac{1}{5}$
d. 5

39. The temperature dropped $3℃$ every day for 6 days. If the temperature was at $14℃$ before the drop, what was the temperature at the end of the 6 days?

a. $8℃$
b. $-18℃$
c. $4℃$
d. $-4℃$

40. Jalene's bank account had $347 at the start of the week. During the week she made two purchases by interact of $122 and $137. Then she deposited $245. How much was in her account at the end of the week.

a. $470
b. $88
c. $455
d. $333

Ratios rate and percent

41. On a particular day, 2% of the students were absent. If there are 1750 students at the school, how many were absent that day?

    a. 35
    b. 350
    c. 725
    d. 1 715

42. Al made $31.25 babysitting for 5 hours last week. What was Al's hourly wage?

    a. $5.65
    b. $6.00
    c. $6.25
    d. $8.15

43. Solve for x: $\frac{x}{24} = \frac{6}{9}$

    a. $\frac{16}{3}$
    b. 12
    c. 16
    d. 36

44. Wendy's class and Peter's class have the same ratio of boys to girls. Wendy's class has 18 boys and 12 girls. If Peter's class has 15 boys, then how many girls does it have?

a. 7
b. 9
c. 10
d. 15

45. A set of golf clubs that normally sells for $485 is on sale for 20% off. What is the sale price?

a. $97.00
b. $388.00
c. $475.30
d. $582.00

46. Which is the better buy and by how much?

(A) 200 copies for $14.00
(B) 300 copies for $27.00

a. A by 0.2¢/copy
b. B by 0.2¢/copy
c. A by 2¢/copy
d. A by 20¢/copy

47. Express 8.3% as a decimal

a. $\frac{0.83}{100}$
b. 0.0083
c. 8.3
d. 0.083

48. Express 4.5% as a fraction in *lowest* terms.

    a. $\frac{0.9}{20}$
    b. $\frac{9}{200}$
    c. $\frac{9}{20}$
    d. $\frac{45}{100}$

49. A furniture salesperson estimates that 50% of her customers buy chairs. If she served 2 152 customers last year, how many bought chairs?

    a. 430
    b. 825
    c. 942
    d. 1 076

50. A basketball player made 63 out of 75 free throws. What percent is this?

    a. 22%
    b. 62%
    c. 80%
    d. 84%