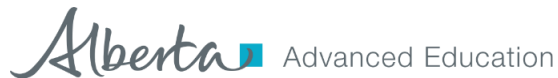# Foundational Numeracy

-12°C

Module 6: Integers, including Fractions and Decimals

Pre-Tests, Final Module Quiz, and Answer Key

Developed for Alberta's Community Adult Learning Program

COMMUNITY ADULT
LEARNING PROGRAM

Funded by Alberta Advanced Education

Alberta Advanced Education

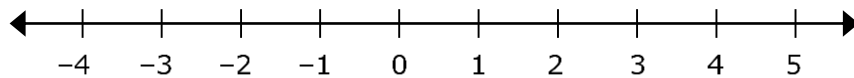# Unit 1 Pre-Test

Name: _____

1. Write the following using positive and negative integers:

    a. A loss of $400   _____

    b. 200 feet above sea level   _____

    c. 50 feet below sea level   _____

2. Circle the correct spot where each number belongs.

    a. −3   b. +4   c. 0

3. Write < or > between each pair of numbers to make a true statement.

    a. −3   −7

    b. −4   2

    c. −5   −3

    d. 13   15

4. Write the absolute value of each of the following.

    a. $|-4|$ _____

    b. $|21|$ _____

5. Put the following integers in order from largest to smallest.

    −3, 8, −7, 6   _____

Unit 2 Pre-Test

Name: _____

Solve the following equations.

1. $(+8) + (-6) =$

2. $(-9) + (-4) =$

3. $(-7) + (+4) =$

4. $-7 + (+10) + (-14) + (+2) =$

5. $(+7) - (+10) =$

6. $(-5) - (+3) =$

7. $(+3) - (-10) =$

8. $(-8) - (-12) =$

9.	On December 4 at 9 a.m., the temperature was −18°C. By 1 p.m., the temperature had risen by 5°C. What was the temperature at 1 p.m.?

10.	On Monday, Jim had $75 in his bank account. He deposited $163 and paid bills of $48 and $116. How much money is left in his bank account?

Unit 3 Pre-Test

Name: _____

Solve the following equations. Round to the thousandths place as necessary.

1. $(-6) \times 4 =$

2. $(+5)(-9) =$

3. $(-4)(-3) =$

4. $(-2)(-6)(-5) =$

5. $(-2)^3 =$

6. $\sqrt{16} =$

7. $-12 \div (-4) =$

8. $50 \div (-5) =$

9. $(-20) \div 4 =$

10. $2 + (-3) \times 3^2 =$

Unit 4 Pre-Test

Name: _____

Solve the following equations.

1. $(-5.2) - 1.83 =$

2. $(-3.06) + (12.34) =$

3. $0.7 - 6.5 =$

4. $(+8.3) - (-5.62) - (+7.81) =$

5. $6.5 \times (-0.4) =$

6. $(-0.7) \times (-0.5) =$

7. $(-3.2) \div 0.04 =$

8. $(-5) \div (-20) =$

9. $(-1.9 + 2.5) + 3(0.9) =$

10. $-5.3(-2) - (-0.08) \div 4 =$

Unit 5 Pre-Test

Name: _____

Solve the following numerical expressions.

1. $\left(-\dfrac{3}{8}\right) + \dfrac{5}{6} =$

2. $7\dfrac{3}{4} + \left(-9\dfrac{5}{12}\right) =$

3. $\left(-\dfrac{9}{14}\right) + \left(-\dfrac{6}{7}\right) =$

4. $\left(-\dfrac{3}{3}\right) - \left(-\dfrac{1}{5}\right) =$

5. $2\dfrac{2}{3} - 7\dfrac{1}{6} =$

6. $\left(-\dfrac{28}{35}\right)\left(\dfrac{5}{7}\right) =$

7. $-\dfrac{11}{15} \div \left(-\dfrac{22}{45}\right) =$

8. $3\dfrac{1}{2} \div (-14) =$

9. $\left(\dfrac{5}{6} - \dfrac{1}{4}\right) \div \left(-\dfrac{21}{4}\right) =$

10. $\dfrac{5 + 4^2 - (-6)}{7 - 5 - 11} =$

Module 6: Final Module Quiz

Name: _____

1. Write $<$ or $>$ between each pair of numbers to make a true statement.
   (Remember that $>$ means **greater than** and $<$ means **less than**.)

   a.   0 ____ 2   c.   1 ____ −4

   b.   −4 ____ −2   d.   −7 ____ −2

2. Arrange the integers in order from smallest to largest.

   $-\sqrt{9}$, 2.6, 0, $-\dfrac{7}{4}$, −2.3

3. Solve the following numerical expressions.

   a. $7 + (-8) =$

   b. $2 + (-6) =$

   c. $(-8) - (-3) =$

   d. $(-4) \times 9 =$

   e. $(-7)(-4)(-2) =$

   f. $72 \div (-8) =$

g. $\dfrac{6 \times (-6)}{-9} =$

h. $9 + 2 \times 42 \div 6 - 2 =$

i. $(18 \div 6) + 5 + (12 - 3) \times 8 =$

j. $(10 - 2) \times 8 + 5 + 15 - 5 =$

k. $-6\dfrac{1}{2} + 3\dfrac{2}{5} - 5\dfrac{7}{10} =$

l. $\dfrac{6 + 3^2 - (-7)}{-7 - 9 + 5} =$

4. A football team has to gain at least 10 yards during four plays in order to keep the ball. Suppose that on four plays, a team lost 6 yards, gained 8 yards, lost 2 yards, and gained 7 yards. What was the net yards gained or lost after the four plays? Did the team gain enough to keep the ball?

5. John started November with $275.75 in his bank account. He deposited three cheques, each worth $486.75, and wrote cheques for $13.62, $183.99, and $45.55. How much was in his account at the end of the month?

6. The temperature at 8 a.m. was −7°C. The temperature went up 3°C at 10 a.m. and another 5°C by 3 p.m. By 9 p.m., the temperature had dropped –14°C. What was the temperature at 9 p.m.?

Answer Key

Unit 1 Pre-Test

1. a. –$400   b. +200 feet   c. –50 feet

2.
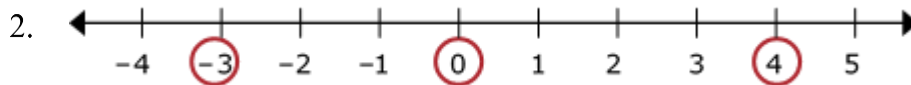
3. a. >   b. <   c. <   d. <

4. a. 4   b. 21

5. 8, 6, –3 , –7

Unit 2 Pre-Test

1. +2 or 2   2. –13   3. –3   4. –9   5. –3

6. –8   7. +13 or 13   8. +4 or 4

9. The temperature was –13°C at 1 p.m.

10. Jim has $74 left in his bank account.

Unit 3 Pre-Test

1. –24   2. –45   3. 12   4. –60   5. –8

6. 4   7. 3   8. –10   9. –5   10. –25

Unit 4 Pre-Test

1. –7.03   2. 9.28   3. –5.8   4. 6.11   5. –2.6

6. 0.35   7. –80   8. 0.25   9. 3.3   10. 10.62

Unit 5 Pre-Test

1. $\dfrac{11}{24}$
2. $-1\dfrac{2}{3}$
3. $-1\dfrac{1}{2}$
4. $-\dfrac{4}{5}$
5. $-4\dfrac{1}{2}$

6. $-\dfrac{4}{7}$
7. $1\dfrac{1}{2}$
8. $-\dfrac{1}{4}$
9. $-\dfrac{1}{9}$
10. -3

Final Module Quiz

1. a. $<$ b. $>$ c. $<$ d. $<$

2. $-\sqrt{9}, -2.3, -\dfrac{7}{4}, 0, 2.6$

3. a. -1 b. -4 c. -5 d. -36

   e. -56 f. -9 g. 4 h. 21

   i. 80 j. 79 k. $-8\dfrac{4}{5}$ l. -2

4. The team gained 7 yards. No, they did not gain enough yards to keep the ball.

5. He had $1 492.84 in his account at the end of the month.

6. The temperature at 9 p.m. was –13°C.