Integrated Algebra - August '09

9 Solve for x: $\frac{3}{5}(x + 2) = x - 4$

(1) 8

(3) 15

(2) 13

(4) 23

13 Which value of x is in the solution set of the inequality $-2(x - 5) < 4$?

(1) 0

(3) 3

(2) 2

(4) 5

21 The solution to the equation $x^2 - 6x = 0$ is

(1) 0, only

(3) 0 and 6

(2) 6, only

(4) $\pm\sqrt{6}$

Integrated Algebra - June '09

2 What are the roots of the equation $x^2 - 7x + 6 = 0$?

(1) 1 and 7

(3) −1 and −6

(2) −1 and 7

(4) 1 and 6

7 Which value of x is the solution of the equation $\frac{2x}{3} + \frac{x}{6} = 5$?

(1) 6

(3) 15

(2) 10

(4) 30

14 Which value of x is in the solution set of $\frac{4}{3}x + 5 < 17$?

(1) 8

(3) 12

(2) 9

(4) 16

Integrated Algebra - January '09

1 On a certain day in Toronto, Canada, the temperature was 15° Celsius (C). Using the formula $F = \frac{9}{5}C + 32$, Peter converts this temperature to degrees Fahrenheit (F). Which temperature represents 15°C in degrees Fahrenheit?

(1) −9

(3) 59

(2) 35

(4) 85

6 What is the solution of $\frac{k + 4}{2} = \frac{k + 9}{3}$?

(1) 1

(3) 6

(2) 5

(4) 14

14 What are the roots of the equation $x^2 - 10x + 21 = 0$?

(1) 1 and 21

(3) 3 and 7

(2) −5 and −5

(4) −3 and −7

18 What is the value of x in the equation $\frac{2}{x} - 3 = \frac{26}{x}$?

(1) −8

(3) $\frac{1}{8}$

(2) $-\frac{1}{8}$

(4) 8

Integrated Algebra - August '08

1 Which value of p is the solution of $5p - 1 = 2p + 20$?

(1) $\frac{19}{7}$

(3) 3

(2) $\frac{19}{3}$

(4) 7

5 Which value of x is in the solution set of the inequality $-4x + 2 > 10$?

(1) −2

(3) 3

(2) 2

(4) −4

20 Which value of x is the solution of $\frac{2x}{5} + \frac{1}{3} = \frac{7x - 2}{15}$?

(1) $\frac{3}{5}$

(3) 3

(2) $\frac{31}{26}$

(4) 7

This worksheet consists of old NYS Regents questions found on past Algebra 1 Regents Exams