

Assessment

Mathematics: Lesson 10



Question 1

Solve $-10x - 1 = -7 + 8x$

1. 3

2. $\frac{1}{3}$

3. -3

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

Question 2

Solve $5x - 6 - 5(x - 1) = -2x - 6$

A. 1

B. $-\frac{7}{2}$

C. $-\frac{7}{5}$

D. $-\frac{5}{2}$

Question 3

Solve $\frac{x}{3} = \frac{x}{4} + 7$

A. 84

B. 28

C. 21

D. 12

Question 4

Solve $\frac{2x}{5} = \frac{x}{3} + 5$

- A. 75
- B. -75
- C. 150
- D. -150

Question 5

Solve

$$\frac{x+6}{2} = \frac{33}{10} - \frac{x-2}{5}$$

- A. $\frac{29}{2}$
- B. 0
- C. 33
- D. 1

Question 6

Solve $10x - 3 = 2x + 8x - 3$

- A. 0
- B. -3
- C. Any number
- D. No solution

Question 7

Solve $x = 11x - 4 + 6x - 4$

A. -0.5

B. 0.5

C. -2

D. 2

Question 8

Solve the equation to determine whether it is an identity, conditional or contradiction.

$$3(5x - 2) = 15x - 6$$

- A. Identity
- B. Conditional
- C. Contradiction

Question 9

Solve the equation to determine whether it is an identity, conditional or contradiction.

$$6x - 5 = 30 + 6(x - 5)$$

- A. Identity
- B. Conditional
- C. Contradiction

Question 10

Solve the equation to determine whether it is an identity, conditional or contradiction.

$$2x + 7 - 2x - 3 = 9x - 9x + 1$$

- A. Identity
- B. Conditional
- C. Contradiction

Question 11

Find the solution set of the equation

$$\frac{2x + 5}{4} = \frac{4x + 6}{3} - \frac{3x}{4}$$

- A. $\{-9\}$
- B. $\{-3\}$
- C. \emptyset
- D. Set of all real numbers

Question 12

Find the solution set of the equation

$$\frac{3x + 20}{15} = \frac{2x + 6}{3} - \frac{x - 1}{5} - \frac{4x + 7}{15}$$

A. $\{4\}$

B. $\left\{-\frac{7}{4}\right\}$

C. \emptyset

D. Set of all real numbers

Question 13

Solve for n

$$4(2n - p) + 8m = 6n + 10p$$

A. $n = 14n - 8m$

B. $n = 7p - 4m$

C. $m = \frac{1}{8}(14p - 2n)$

D. $n = 3p - 8m$