

HOMWORK: Solving Equations

Name: Key
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Created for you by Ms. Whatsubahn!

Directions: Solve for each equation and then circle its solution.

1. $4x + 3 - 4x = 5$

$3 = 5$

No Solution

Infinite Many Solutions

One Solution

2. $10x + 5 = 43 + 10x$

$\frac{-10x \quad -10x}{5 = 43}$

$5 \neq 43$

No Solution

Infinite Many Solutions

One Solution

3. $4(3x + 4) = 2(6x + 8)$

$\frac{12x + 16 = 12x + 16}{-12x \quad -12x}$

$16 = 16$

the same

No Solution

Infinite Many Solutions

One Solution

4. $4 + 2x = -(4x - 40)$

$4 + 2x = -4x + 40$

$\frac{+4x \quad +4x}{4 + 6x = 40}$

$\frac{-4 \quad -4}{6x = 36}$

$\frac{6 \quad 6}{x = 6}$

$x = 6$

No Solution

Infinite Many Solutions

One Solution

5. $9x - 2x - 21 = 7x - 21$

$7x - 21 = 7x - 21$
same

No Solution

Infinite Many Solutions

One Solution

6. $-(2x + 10) = 2(x - 5)$

$-2x - 10 = 2x - 10$
 $-2x - 2x = -10 + 10$
 $-4x = 0$
 $x = 0$

No Solution

Infinite Many Solutions

One Solution

7. $9 - 5x + 2 = 32 + 2x$

$11 - 5x = 32 + 2x$
 $-2x - 2x = 32 - 11$
 $-4x = 21$
 $x = -\frac{21}{4}$

No Solution

Infinite Many Solutions

One Solution

8. $50 = 5(3x - 2) + 5x$

$50 = 15x - 10 + 5x$
 $50 = 20x - 10$
 $+10 +10 = 20x$
 $60 = 20x$
 $3 = x$

No Solution

Infinite Many Solutions

One Solution

Review

Directions: Write each decimal as a rational number (fraction in simplest form) and as a percent.

	Fraction	Decimal	Percent
9.	$\frac{3}{10}$	0.3	30%
10.	$\frac{65 \cdot 5}{100 \cdot 5} = \frac{13}{20}$	0.65	65%

11. Order the numbers from least to greatest.

$\frac{7}{5} = 1.4$
 0.0025
 $1.5 < |-1.5|, (0.05)^2, \frac{7}{5}, \frac{9}{-3} = -3$

$-\frac{9}{3}, (0.05)^2, \frac{7}{5}, |-1.5|$

12. What does it mean to find the perimeter of a shape?

Find the distance around the shape. Add up all the sides

13. Can you combine $-16x + 9x$? yes

Can you combine $-16x^2 + 9x$? no, Explain your

answer. The variables are not the same.

14. Simplify: $-5\frac{3}{7} + (-\frac{2}{3})$

$-\frac{38}{7} - \frac{2}{3}$
 $-\frac{114}{21} - \frac{14}{21} = -\frac{128}{21}$

$-\frac{128}{21}$