

Warm-up Thursday May 2

Place your answer in the gridded response.

No Calculators

1) Evaluate the following expression.

$$(3^2)^5 \cdot 3^{-7}$$



	/	/	/	/	
.	
0	0	0	0	0	0
1	1	1	1	1	1
2	2	2	2	2	2
3	3	3	3	3	3
4	4	4	4	4	4
5	5	5	5	5	5
6	6	6	6	6	6
7	7	7	7	7	7
8	8	8	8	8	8
9	9	9	9	9	9

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Place your answer in the gridded response.

No Calculators

1) Evaluate the following expression.

$$(3^2)^5 \cdot 3^{-7}$$

$$3^{10} \cdot 3^{-7}$$

$$3^{10+(-7)}$$

$$3^3$$

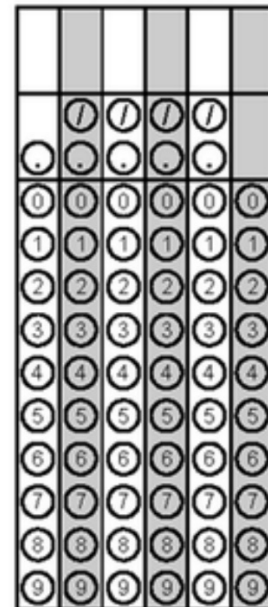
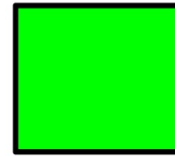
$$27$$



27					
.	/	/	/	/	
0	0	0	0	0	0
1	1	1	1	1	1
2	2	2	2	2	2
3	3	3	3	3	3
4	4	4	4	4	4
5	5	5	5	5	5
6	6	6	6	6	6
7	7	7	7	7	7
8	8	8	8	8	8
9	9	9	9	9	9

2) Find the value of x.

$$\frac{5x + 1}{6} = \frac{1}{4} - \frac{1x}{2}$$



2) Find the value of x.

$$\frac{5x}{6} + 1 = \frac{1}{4} - \frac{1}{2}x$$

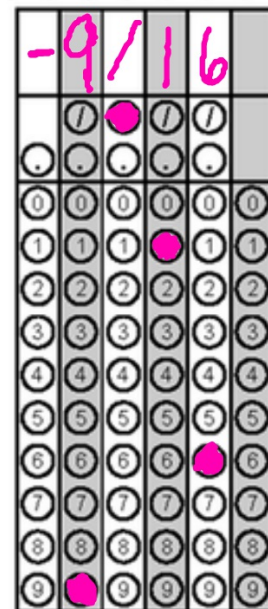
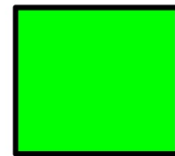
$$12\left(\frac{5}{6}x + 1\right) = 12\left(\frac{1}{4} - \frac{1}{2}x\right)$$

$$10x + 12 = 3 - 6x$$

$$16x + 12 = 3$$

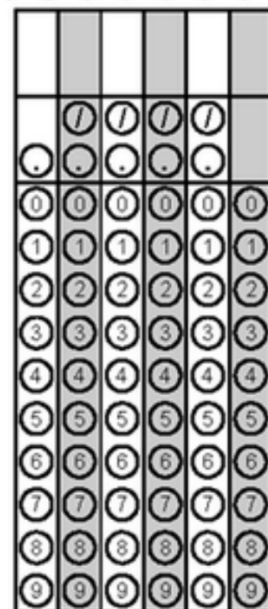
$$16x = -9$$

$$x = -\frac{9}{16}$$



3) Find the value of x.

$$2(x - 2) = 3x - (4x - 5)$$



3) Find the value of x.

$$2(x - 2) = 3x - 1(4x - 5)$$

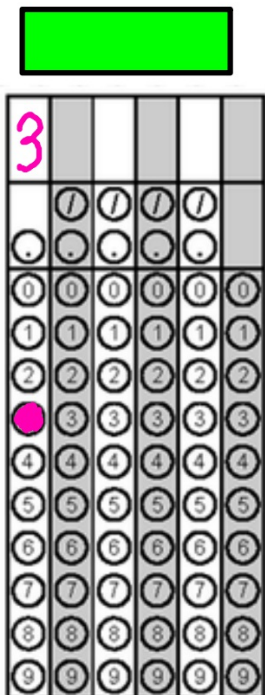
$$2x - 4 = 3x - 4x + 5$$

$$2x - 4 = -x + 5$$

$$3x - 4 = 5$$

$$3x = 9$$

$$x = 3$$



4) Divide and write your answer in standard form

$$\frac{3.3 \times 10^{-12}}{1.1 \times 10^{-14}}$$



	/	/	/	/	
.	
0	0	0	0	0	0
1	1	1	1	1	1
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3	3	3	3	3	3
4	4	4	4	4	4
5	5	5	5	5	5
6	6	6	6	6	6
7	7	7	7	7	7
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9	9	9	9	9	9

4) Divide and write your answer in standard form

$$\frac{3.3 \times 10^{-12}}{1.1 \times 10^{-14}}$$

$$\left(\frac{3.3}{1.1}\right) \times \left(\frac{10^{-12}}{10^{-14}}\right)$$

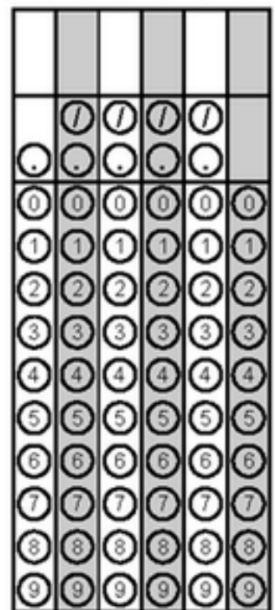
$$\begin{array}{r} 1.1 \overline{) 3.3} \\ 11 \overline{) 33} \\ \hline 300 \end{array} \times 10^2$$

$$\begin{array}{l} -12 - (-14) \\ -12 + 14 \end{array}$$



3	0	0			
.
0	0	0	0	0	0
1	1	1	1	1	1
2	2	2	2	2	2
3	3	3	3	3	3
4	4	4	4	4	4
5	5	5	5	5	5
6	6	6	6	6	6
7	7	7	7	7	7
8	8	8	8	8	8
9	9	9	9	9	9

5) Ashleigh has \$2.55 in dimes and quarters. She has eight more dimes than quarters. How many quarters does she have?



5) Ashleigh has \$2.55 in dimes and quarters. She has eight more dimes than quarters. How many quarters does she have?

x - # of dimes
y - # of quarters

$$\begin{array}{r} 1.30 \\ + 1.25 \\ \hline 2.55 \end{array}$$

x = y + 8

.10x + .25y = 2.55

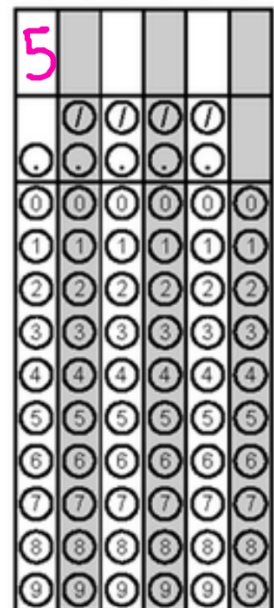
.10(y + 8) + .25y = 2.55

.10y + .80 + .25y = 2.55

.35y + .80 = 2.55

.35y = 1.75

y = 5



Daily Homework Check

Solving Systems by Substitution

4

10

Homework Answers Solving by Substitution

1) $2x + 3y = -12$

$-x - 3y = 18$

$(6, -8)$

2) $-3x - y = -24$

$y = 3x$

$(4, 12)$

3) $y = \frac{2}{3}x - 1$

$y = 3$

$(6, 3)$

6) $4x + 6y = -6$

$6y = 18$

$(-6, 3)$

7) $6x + 9y = -24$

$3y = 6$

$(-7, 2)$

8) $5x - 4y = -23$

$-5x + 9y = 8$

$(-7, -3)$

Homework Answers Solving by Substitution

1) $2x + 3y = -12$

② $-x - 3y = 18 \rightarrow -x = 3y + 18$
 $x = -3y - 18$

(6, -8)

$2(-3y - 18) + 3y = -12$

6) $4x + 6y = -6$

② $6y = 18 \Rightarrow y = 3$
 $4x + 6(3) = -6$
 $4x + 18 = -6$
 $4x = -24$
 $x = -6$
 (-6, 3)

(-6, 3)

2) $-3x - y = -24$
 ② $y = 3x$

(4, 12)

$-3x - 3x = -24$
 $-6x = -24$
 $x = 4$
 $y = 3(4) = 12$
 (4, 12)

7) $6x + 9y = -24$

② $3y = 6 \Rightarrow y = 2$
 $6x + 9(2) = -24$
 $6x + 18 = -24$
 $6x = -42$
 $x = -7$
 (-7, 2)

(-7, 2)

3) $y = \frac{2}{3}x - 1$

$\rightarrow y = 3$

(6, 3)

$3 = \frac{2}{3}x - 1$
 $4 = \frac{2}{3}x$
 $12 = 2x$
 $6 = x$
 (6, 3)

8) $5x - 4y = -23$
 $-5x + 9y = 8$
 (-7, -3)

$\Rightarrow 5x = 4y - 23$
 $x = \frac{4}{5}y - \frac{23}{5}$
 $-5(\frac{4}{5}y - \frac{23}{5}) + 9y = 8$
 $-4y + 23 + 9y = 8$

$$4) y = \frac{4}{5}x - 3$$

$$y = -7$$

$$(-5, -7)$$

$$5) y = \frac{1}{2}x + 5$$

$$y = -\frac{5}{2}x - 1$$

$$(-2, 4)$$

$$9) y = \frac{3}{2}x + 3$$

$$y = -3$$

$$(-4, -3)$$

$$10) 6x + 7y = -9$$

$$-4x - 5y = 5$$

$$(-5, 3)$$

Classroom Review Activities

Go to this address:

tinyurl.com/SCMSEEREVIEW

Write your problems on a sheet of notebook paper.

Homework: Get the parent note signed and rework or complete 15 problems to include three each from these topics:

scientific notation, exponents, solving equations, graphing linear equations and comparing equations, and solving systems of equations

