	-
Solving Linear Equation Chapter 1-3	ons
Solve each equation. (28) x-6=-20 +6 + 6	Students should show operation done to Bort Sides of an equation to make use of
$(29) \left(-\frac{3}{2}\right)\left(-\frac{2}{3}\alpha\right) = (14) \left(-\frac{3}{2}\right)$	Borth Sides of an equation to make use of
$a = \frac{42}{2}$	Additive Inverse Property
[a=-21]	/ & Mulhplicative Inverse
30 7+5n=-58	5 = 1
5n = -65 5 5	
(n = -13)	

Chapter 1-3 continued

(31)
$$3\omega + 14 = 7\omega + 2$$

 -3ω -3ω
 $14 = 4\omega + 2$
 -2 -2
 $12 = 4\omega$
 4 4
 $13 = \omega$

use common Multiple to remove Fractions

$$\frac{3y = -12}{2}$$

Chapter 1-3 continued	
	•
Let x = number of nickels	s
(34) 0.98 = 2(0.25) + 1(0.10) + 3(
0.98 = 0.50 + 0.10 + 0.03	
0,98 = 0.63 + 0.05 x	
-0.63 -0.63	
0.35 = 0.05 x	
0.05 0.05	
7= x she has 7 nickels	* assign a
she has Inickels	variable to av
	unknown
The second secon	(# of nickels)
Solve each equation or formula for	or the specified variable
Solve each equation or formula for 35 $Ax + By = C$, for x	
	* Use inverse
35) Ax+By=C, forx - By - By	* Use inverse properties ω/
1	* Use inverse
35) Ax+By=C, forx - By - By	* Use inverse properties ω/
35) Ax+By=C, forx - By - By	* Use inverse properties ω/
35) Ax+By=C, forx - By - By	* Use inverse properties ω/
35) Ax+By=C, forx - By - By	* Use inverse properties ω/
35) Ax+By=C, forx - By - By	* Use inverse properties ω/
35) Ax + By = C, for x $-By - By$ $Ax = C - By$ $A = A$ $x = C - By$ $x = A$	* Use inverse properties ω/
35) Ax + By = C, for x $-By - By$ $Ax = C - By$ $A = A$ $x = C - By$ $A = A$ $x = C - By$ $A = A$	* Use inverse properties ω/
35) Ax + By = C, for x $-By - By$ $Ax = C - By$ $A = A$ $x = C - By$ $x = A$	* Use inverse properties ω/
35) $Ax + By = C$, for $x - By - By$ $Ax = C - By$ $A = A$ $X = C - By$ $A = A$ $X = C - By$ $A = A$	* Use inverse properties ω/
35) Ax + By = C, for x $-By - By$ $Ax = C - By$ $A = A$ $x = C - By$ $x = A$	* Use inverse properties ω/

		,	
Chapter	1-3	continued	 ,

(38)
$$d = b^2 - 4ac$$
, for c
$$-b^2 - b^2$$

$$d - b^2 = -4ac$$

$$-4a$$

$$d - b^2 = c$$

$$\frac{3V}{r} = r^2$$

$$\sqrt{\frac{3V}{r}} = r$$

Solve each equation. Check your solution.

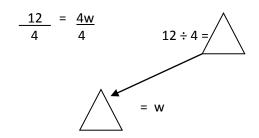
A)
$$x = -14$$

$$-\frac{2}{3}$$
 a = 14

$$-\frac{3}{2}$$
 $\frac{-2}{3a}$ = 14 x -3/2

$$7 + 5n = -58$$
 $-58 - 7 = -65$ $-65 \div 5 = 65$ $-65 \div 5 = 65$

B) 5

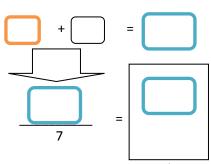


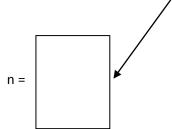
A) 3

B) 2

$$\frac{n+n}{4} = \frac{1}{2}$$

$$\frac{12}{(n/4 + n/3)} = \frac{1}{2}(12)$$







$$5y + 4 = 2(y-4)$$
 $2 \times y = 2y$

$$5y + 4 = 2y + -8$$

$$-2y - 2y$$

$$-3y + 4 = -8$$

$$-4 -4$$

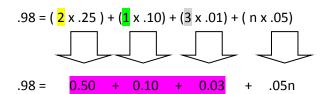
$$\frac{3y}{3} = \frac{-12}{3}$$

A) y = 4



MONEY

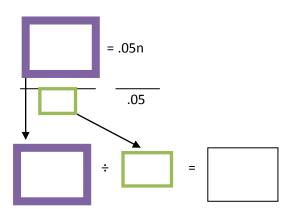
If Tabitha has 98 cents and you know she has 2 quarters, 1 dime, and 3 pennies, how many nickels does she have?



$$.98 = 0.63 + .05n$$

 $-0.63 -0.63$



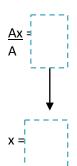


She has nickels.

- A) she has 7 nickels
- B) she has 12 nickels

Solve each equation or formula for the specified variables.

$$Ax + By = C$$
 for x
 $-By$ $-By$



A)
$$x = \frac{C - By}{A}$$

B)
$$x = \frac{C + By}{A}$$

$$\frac{a-4b^2}{2c} = d \qquad \text{for a}$$

$$2c \quad \times \frac{a-4b^2}{2c} = \frac{d}{d} \times \frac{2c}{2c}$$

$$a-4b^2 = \frac{2cd}{}$$

$$+4b^{2} +4b^{2}$$



A)
$$a = 4cd + 4b$$

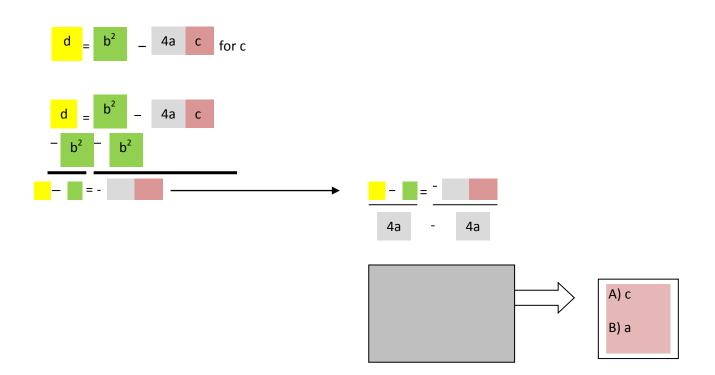
B)
$$a = 2cd + 4b^2$$

$$\frac{A}{1+rt} = \frac{p(1+rt)}{1+rt}$$



$$A)\frac{A}{1+rt} = p$$

$$B)\frac{A}{12r} = p$$



GEOMETRY

Alex wants to find the radius of the circular base of a cone. He knows the height of the cone is $\frac{8}{18.84}$ inches and the volume of the cone is $\frac{18.84}{18.84}$ cubic inches. Use the formula for volume of a cone, $V = 1/3\pi r^2 h$, to find the radius.

$$V = 1/3\pi r^2 h$$

$$\frac{3}{3}$$
 x $\frac{18.84}{1} = \frac{1}{3}\pi r^2 (\frac{8}{8})$ x $\frac{3}{3}$

$$\frac{56.52}{\pi(8)} = \frac{\pi r^2(8)}{\pi(8)}$$

$$\frac{56.52}{\pi(8)} = r^2$$

$$\sqrt{\frac{56.52}{\pi (8)}} - \sqrt{r^2}$$

$$\sqrt{\frac{\pi (8)}{\pi (8)}} = \mathbf{r}$$

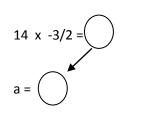
- A) 1.499 in
- B) 4.9 in

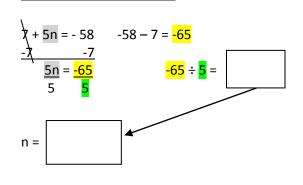
Solve each equation. Check your solution.

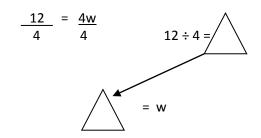
$$x + 6 = -20$$
 $-20+6=$ $x = -20$

$$-\frac{2}{3} = 14$$

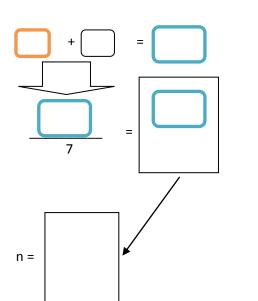
$$-\frac{3}{2} = \frac{-2}{3} = 14 \times -3/2$$







$$\frac{n+n}{4} = \frac{1}{2}$$



$$5y + 4 = 2(y-4)$$
 $2 \times y = 2y$

$$5y + 4 = 2y + -8$$

$$-2y - 2y$$

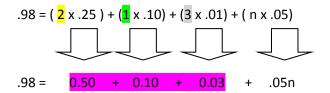
$$3y + 4 = -8$$

$$-4 -4$$

$$\frac{3y}{3} = \frac{-12}{3}$$

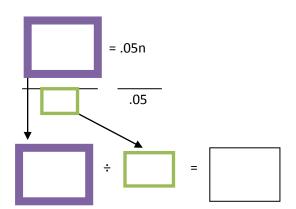
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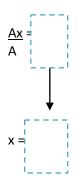
 $-0.63 -0.63$



She has nickels.

Solve each equation or formula for the specified variables.

$$Ax + By = C$$
 for x
 $-By$ $-By$



$$\frac{a-4b^2}{2c} = d \qquad \text{for a}$$

$$2c \quad \times \frac{a-4b^2}{2c} = \frac{d}{d} \times \frac{2c}{2c}$$

$$a-4b^2 = 2cd$$

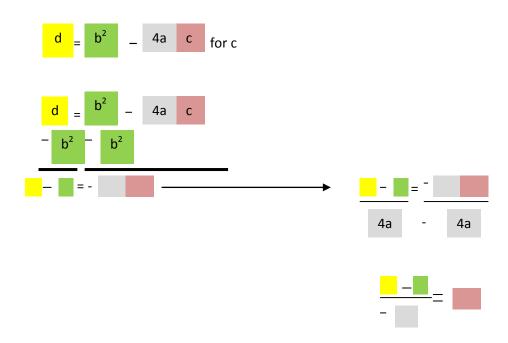
$$+4b^{2} +4b^{2}$$



$$A = p + prt for p$$

$$\frac{A}{1+rt} = \frac{p(1+rt)}{1+rt}$$





GEOMETRY

Alex wants to find the radius of the circular base of a cone. He knows the height of the cone is $\frac{8}{18.84}$ inches and the volume of the cone is $\frac{18.84}{18.84}$ cubic inches. Use the formula for volume of a cone, $V = 1/3\pi r^2 h$, to find the radius.

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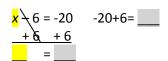
$$\frac{56.52}{\pi(8)} = \frac{\pi r^2(8)}{\pi(8)}$$

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$$\sqrt{\frac{56.52}{\pi (8)}} - \sqrt{r^2}$$

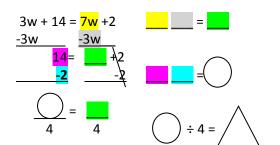
$$\sqrt{\frac{\pi}{\pi}} = \mathbf{r}$$

Solve each equation. Check your solution.

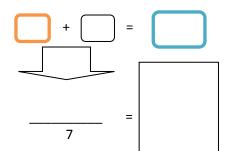


$$-\frac{2}{3}$$
 a = 14

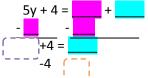
$$-\frac{3}{2}$$
 $\frac{-2}{3a}$ = 14 x -3/2



$$\frac{n+n}{4} = \frac{1}{2}$$



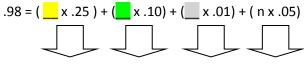




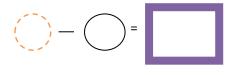


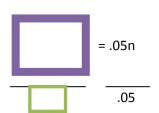
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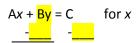




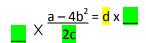




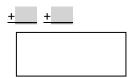
Solve each equation or formula for the specified variables.



$$\frac{a-4b^2}{2c} = d \qquad \text{for a}$$

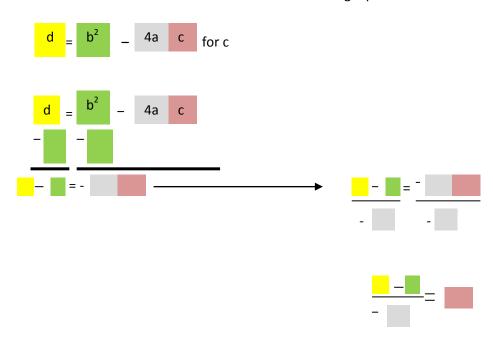


$$a-4b^2 =$$



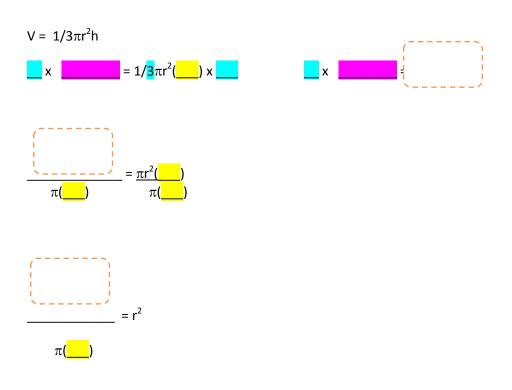
A = p + prt for p





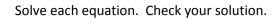
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Alex wants to find the radius of the circular base of a cone. He knows the height of the cone is $\frac{8}{18.84}$ inches and the volume of the cone is $\frac{18.84}{18.84}$ cubic inches. Use the formula for volume of a cone, $V = 1/3\pi r^2 h$, to find the radius.



$$\sqrt{\frac{1}{\pi (8)}} = \sqrt{r^2}$$

$$\sqrt{\frac{\pi (8)}{\pi (8)}}$$
 - Γ



$$x - 6 = -20$$

$$-\frac{2}{3}$$
 a = 14

$$7 + 5n = -58$$

$$3w + 14 = 7w + 2$$

$$5y + 4 = 2(y-4)$$

MONEY

If Tabitha has 98 cents and you know she has 2 quarters, 1 dime, and 3 pennies, how many nickels does she have?

Solve each equation or formula for the specified variables.

$$Ax + By = C \text{ for } x$$

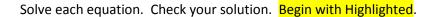
$$\frac{a-4b^2}{2c} = d \text{ for a}$$

$$A = p + prt for p$$

$$d = b^2 - 4ac$$
 for c

GEOMETRY

Alex wants to find the radius of the circular base of a cone. He knows the height of the cone is 8 inches and the volume of the cone is 18.84 cubic inches. Use the formula for volume of a cone, $V = 1/3\pi r^2 h$, to find the radius.



$$x - 6 = -20$$

$$\underline{n+\underline{n}} = \underline{1}$$
 (Multiply both sides by 12)
4 3 2

$$5y + 4 = 2(y-4)$$

 $5y + 4 = 2y - 8$

MONEY

If Tabitha has 98 cents and you know she has 2 quarters, 1 dime, and 3 pennies, how many nickels does she have?

Solve each equation or formula for the specified variables.

$$Ax + By = C for x$$

$$\frac{a - 4b^2}{2c} = \frac{d \text{ for a}}{2c}$$

$$A = p + prt$$
, for p

$$\frac{= p}{d = b^2 - 4ac, \text{ for c}}$$

GEOMETRY

Alex wants to find the radius of the circular base of a cone. He knows the height of the cone is 8 inches and the volume of the cone is 18.84 cubic inches. Use the formula for volume of a cone, $V = 1/3\pi r^2 h$, to find the radius.