

Solve equations containing rational coefficients

- 1** Solve the fraction for 'x' in terms of the variables and reduce.

$$3a = \frac{4x}{3b}$$

A	$x = \frac{b}{4a}$	B	$x = \frac{a \cdot b}{4}$
C	$x = \frac{a}{4b}$	D	$x = \frac{9a \cdot b}{4}$

- 2** Solve for the variable in the equation
 $4y = 42 - 3y$

A	$y = 3$	B	$y = 5$
C	$y = 7$	D	$y = 6$
E	$y = 9$	F	$y = 8$

- 3** Simplify and solve for w

$$5^{\left(\frac{3w-8}{2}\right)} = 25^w$$

A	$w = -7$
B	$w = -8$
C	$w = -6$
D	$w = -9$

- 4** Solve for the variable in the equation

$$\frac{60}{6b} = 2$$

A	$b = 5$	B	$b = 4$
C	$b = 7$	D	$b = 3$
E	$b = 8$	F	$b = 6$

- 5** Simplify and solve for t

$$5^{\left(\frac{5t+6}{2}\right)} = 125^t$$

A	$t = 6$	B	$t = 8$
C	$t = 5$	D	$t = 7$

- 6** Solve for the variable in the equation

$$\frac{3d}{3} = 5$$

A	$d = 8$	B	$d = 6$
C	$d = 4$	D	$d = 5$
E	$d = 2$	F	$d = 7$

- 7** Simplify and solve for x

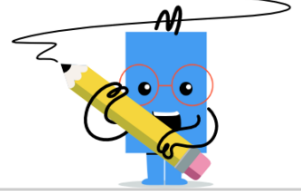
$$7^{\left(\frac{2x+8}{5}\right)} = 49^x$$

A	$x = 0$	B	$x = 3$
C	$x = 1$	D	$x = 2$

- 8** Solve for the variable in the equation

$$3p = 44 - 8p$$

A	$p = 5$	B	$p = 7$
C	$p = 2$	D	$p = 6$
E	$p = 3$	F	$p = 4$



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Simplify and solve for t

$$4^{\left(\frac{9t+8}{5}\right)} = 16^t$$

A

$$t = 10$$

B

$$t = 8$$

C

$$t = 9$$

D

$$t = 7$$

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Solve for the variable in the equation

$$\frac{8n}{5} = 8$$

A

$$n = 7$$

B

$$n = 8$$

C

$$n = 3$$

D

$$n = 4$$

E

$$n = 5$$

F

$$n = 2$$

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Simplify and solve for w

$$6^{\left(\frac{5w+7}{2}\right)} = 216^w$$

A

$$w = 8$$

B

$$w = 6$$

C

$$w = 7$$

D

$$w = 9$$

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Solve for the variable in the equation

$$4z = 33 - 7z$$

A

$$z = 2$$

B

$$z = 3$$

C

$$z = 0$$

D

$$z = 4$$

E

$$z = 5$$

F

$$z = 1$$