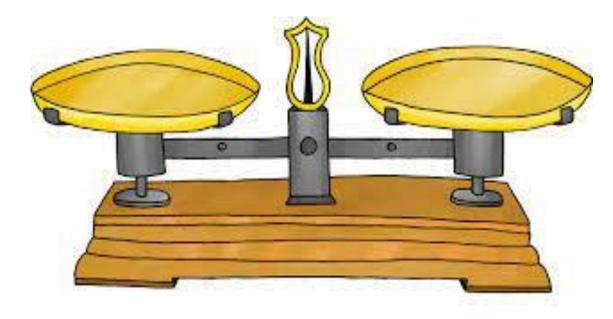
Solving Linear Equations with one variable



Teacher: Wisam al mashni

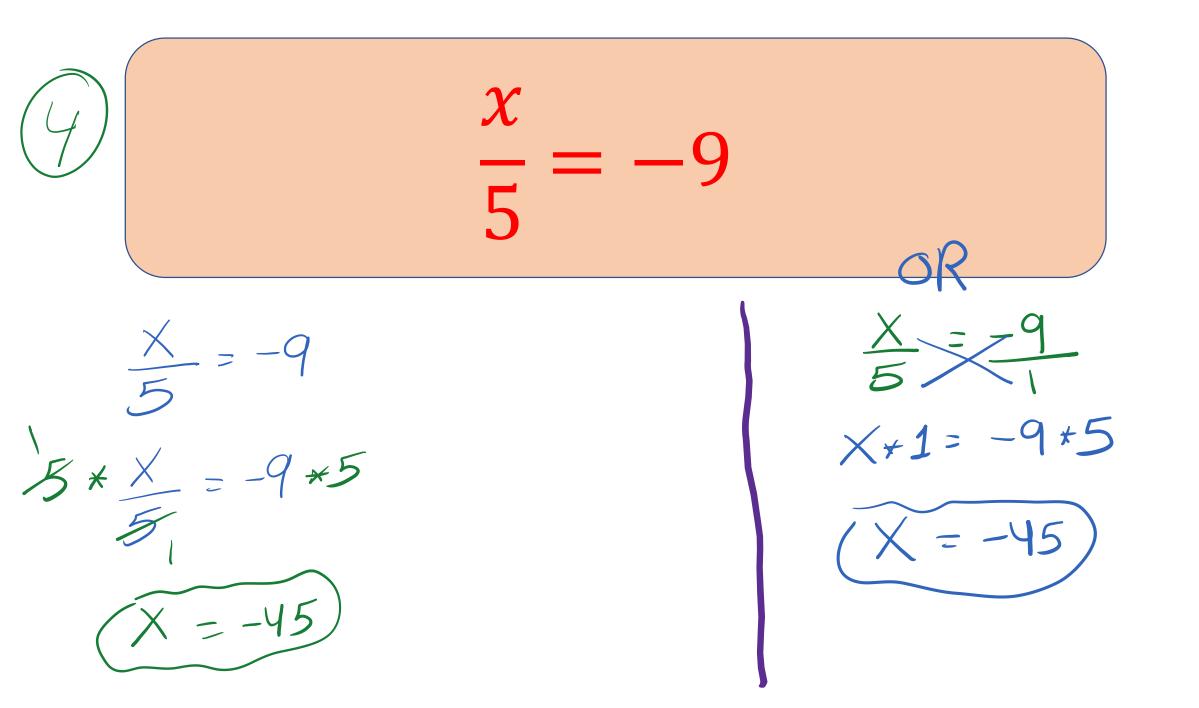
Objective: solve linear equations with one variable.



x + 4 = 6(6) 5 different Signs -> Subtract... اس ان متعلقة بحفرج بحفع إشارة المركب

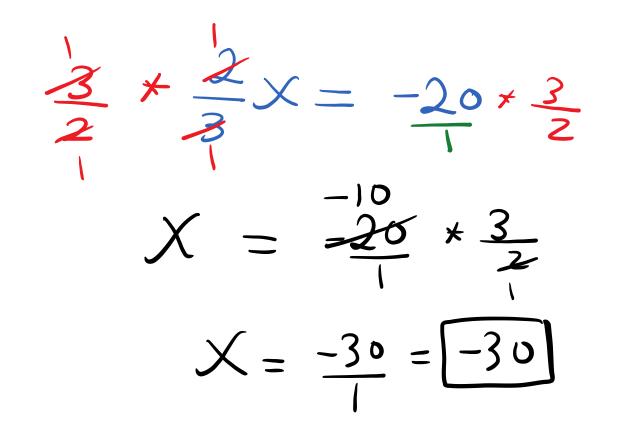
x - 6 = -10different Signs (sybtract) E

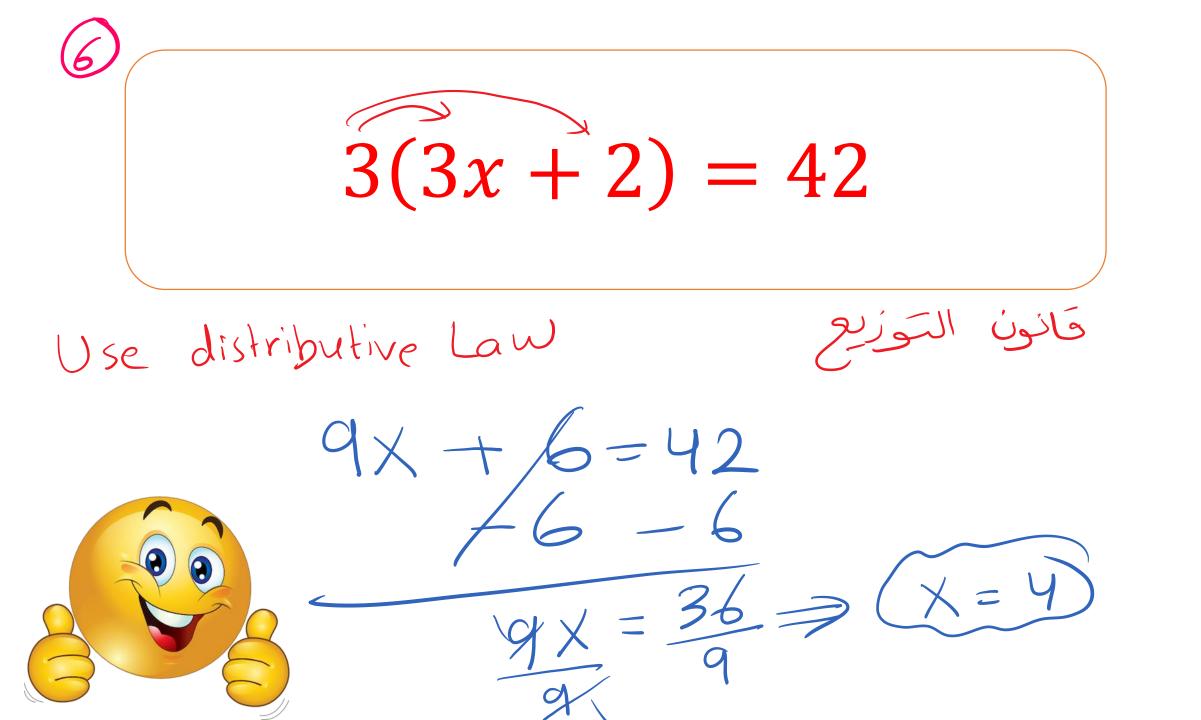
4x = -20Remember : $\frac{4}{4} = -\frac{20}{4}$



 $\frac{1}{3}x = -20$

المغرب بالمقلوب





(5-x)=56-35 $-7\chi = \frac{1}{21}$ -3 • X

-2(5x-12) = 60 $-10\chi + 24 = 60$ $-10 \times = 36$ -106

$$\frac{7x-1}{3} = 9$$

$$(7 \times -1) = 9 \times 3$$

$$(7 \times -1) = 1 = 9 \times 3$$

$$7x - 1 = 27$$

$$\frac{7x}{7} = 27$$

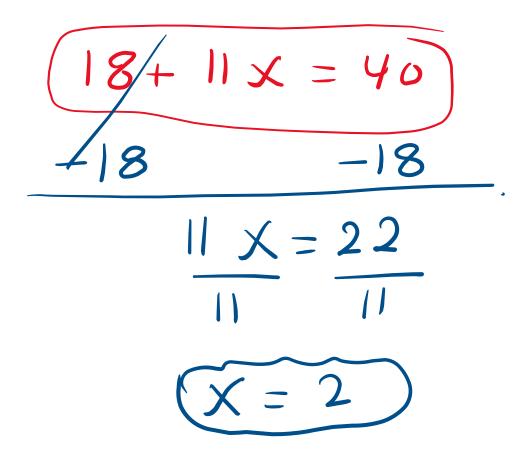
 $\frac{1}{3}(x-5) = -(5+x)$ $2 \times -10 = -15 - 3 \times$ + 3 X 5Х +100 3(-5-x)2x - 10 =2x - 10 = -15 - 3x =

(3x-4) = 4x+171 -8 = 4x + 176 x $= 6 \times - 4 \times$ -4.X 21 +2X - 82X - 8 = 173 + 8 2x = 252 = [12.5] 112 1

نتخدم مكانون لتوزيح Distributive Law

تخلص من × من أحر العُرضين معنى المخلص من ل × الأقل

2) $\frac{3}{4}(6+x) = -2(x-5)$ $\frac{3}{4} \times \frac{(6+x)}{1} = -2(x-5)$ حاون لمتوزح (18 + 3X) = -2(X-5)نعرب مرب سادتى Cross Multiplication 18 + 3X = -8(x - 5)**قانون ليتوزع** 18 + 3x = -8x + 40+ 8x + 8x مفضل التخلص من x إدقل ×8- أقل $+8\times$ $18 + 11 \times = 40$ inder + 8x comes a



 $1 \times -2 = -18 - 9 \times$ Note : 9 x=10 X +9Xdifferent X تعم XI \leftarrow Signs (Subtract) 6 6

Cross Multiplication 3) $\frac{x+4}{5} = (9-7x)$ X + Y = 5(q - 7X)Distributive Law $\begin{array}{rcl} (1)_{X} + 4 &=& 45 - 35_{X} \\ + 35_{X} & & + 35_{X} \end{array}$ 36x + 4 = 45×=/ 36X



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