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|  | Solving Two-step Equations  |
|  | ***Predict*** what you think the answer will be and then ***work it out***. |
|  |  |  |  |  |  |  |  |  |  |  |
|  | **A** |  | **B** |  | **C** |  |  |
|  | 1) | $$2x+3=21$$ |  | 1) | $$7(x+2)=21$$ |  | 1) | I think of a number. I multiply it by 5 then add 6. My answer is 21. Write an expression. Solve it to find my initial number. |  |  |
|  | 2) | $$3 + 2x=21$$ |  | 2) | $$3(x-3)=21$$ |  |  |  |  |
|  | 3) | $$2x-3=21$$ |  | 3) | $$2y+3=21$$ |  | 2) | I think of a number. I multiply it by 6 then add 5. My answer is 21. Write an expression. Solve it to find my initial number. |  |  |
|  | 4) | $$3 -2x=21$$ |  | 4) | $$7(x+2)=42$$ |  |  |  |
|  | 5) | $$2x+4=21$$ |  | 5) | $$2(x+2)=21$$ |  | 3) | $$\frac{2x}{5}-5.5=6.5$$ |  |  |
|  | 6) | $$2x+23=21$$ |  | 6) | $$4(x+2)=42$$ |  | 4) | $$\frac{2x-4}{2}=6$$ |  |  |
|  | 7) | $$\frac{x}{2}+3=21$$ |  | 7) | $$5x-3.5=26.5$$ |  | 5) | $$\frac{2(x-4)}{2}=6$$ |  |  |
|  | 8) | $$3x+3=21$$ |  | 8) | $$\frac{x+4}{2}=6$$ |  | 5) | I think of a number. I multiply it by 15 then add 15. My answer is 15. Write an expression. Solve it to find my initial number.  |  |  |
|  | 9) | $$6x+3=21$$ |  | 9) | $$\frac{2x+4}{2}=6$$ |  |  |  |
|  | 10) | $$\frac{x}{4}+3=21$$ |  | 10) | $$\frac{x}{7}+3=21$$ |  | 6) | I think of a number. I multiply it by 15 then add 15. My answer is -15. Write an expression. Solve it to find my initial number.  |  |  |
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|  | Solving Two Step Equations ANSWERS |
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|  | **A** |  | **B** |  | **C** |  |  |
|  | 1) | $$x=9$$ |  | 1) | $$x=1$$ |  | 1) | $$5x+6=21$$$$x=3$$ |  |  |
|  | 2) | $$x=9$$ |  | 2) | $$x=10$$ |  |  |  |  |
|  | 3) | $$x=12$$ |  | 3) | $$y=9$$ |  | 2) | $$6x+5=21$$$$x=\frac{8}{3}$$ |  |  |
|  | 4) | $$x=-9$$ |  | 4) | $$x=4$$ |  |  |  |
|  | 5) | $$x=8.5$$ |  | 5) | $$x=8.5$$ |  | 3) | $$x=30$$ |  |  |
|  | 6) | $$x=-1$$ |  | 6) | $$x=8.5$$ |  | 4) | $$x=8$$ |  |  |
|  | 7) | $$x=36$$ |  | 7) | $$x=6$$ |  | 5) | $$x=10$$ |  |  |
|  | 8) | $$x=6$$ |  | 8) | $$x=8$$ |  | 5) | $$15x+15=15$$$$x=0$$ |  |  |
|  | 9) | $$x=3$$ |  | 9) | $$x=4$$ |  |  |  |
|  | 10) | $$x=72$$ |  | 10) | $$x=147$$ |  | 6) | $$15x+15=-15$$$$x=-2$$ |  |  |