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What does the x equal in each of these equations?

- | | |
|--------------------|---------------------|
| 1) $2x + 4 = 14$ | 11) $3x - 7 = 20$ |
| 2) $4x + 7 = 19$ | 12) $10x - 10 = 30$ |
| 3) $6x + 5 = 23$ | 13) $6x - 2 = 28$ |
| 4) $2x + 11 = 27$ | 14) $3x - 5 = 13$ |
| 5) $5x + 9 = 29$ | 15) $5x - 8 = 27$ |
| 6) $7x + 13 = 34$ | 16) $4x - 7 = 1$ |
| 7) $4x + 3 = 35$ | 17) $8x - 6 = 18$ |
| 8) $6x + 18 = 24$ | 18) $7x - 11 = 17$ |
| 9) $9x + 5 = 104$ | 19) $9x - 21 = 60$ |
| 10) $6x + 11 = 65$ | 20) $2x - 9 = 15$ |

L7
Grade 7
Preparation: Quick

Solving Linear Equations (D)



Solve the equations and leave your answers as simplified fractions or as decimals.

Section A

1) $\frac{2x+5}{3} = 11$	5) $8x + \frac{1-4x}{8} = 7$	9) $2 + \frac{4x}{3} - 7 = 1$
2) $\frac{8-3x}{2} = 5$	6) $\frac{5}{x} = -6$	10) $4 - \frac{3x}{2} = 3x + 5$
3) $\frac{5-9x}{6} = -2$	7) $\frac{11}{4x} + 9 = 3$	11) $\frac{6-x}{x} = 10$
4) $\frac{7x+6}{3} - 9 = -12$	8) $5 - \frac{3x}{4} = 8x$	12) $4 - \frac{2x}{9} + x = -1$

Section B

1) $4(2x-3) = 8(2x+5)$	7) $7(4-3x) = 2(8x-9) + 6$
2) $3(4x-5) = 5(2x-5)$	8) $-6(3-4x) + 2x = 8(x+11)$
3) $8(6x+2) = 5(x-2)$	9) $3(2x-6) = 3-4(3-x)$
4) $2(3x-4) = 7(11-2x)$	10) $9(2x-1) - 3x = 3(12+x)$
5) $7(5-x) = -4(x-11)$	11) $4x - (2x-8) = 5(1+2x)$
6) $-4(x-8) = -6(4+3x)$	12) $10 - 6(8x-2) = 9x - (3+4x)$

Section C

1) $\frac{5x-2}{3} = \frac{4x+1}{2}$	8) $\frac{1}{2}(5x+7) = \frac{3}{4}(3x-1)$
2) $\frac{7x-8}{5} = \frac{2x+5}{4}$	9) $\frac{5}{3x+1} = 12$
3) $\frac{-8x-1}{2} = \frac{5-3x}{6}$	10) $\frac{x+2}{x+3} = 4$
4) $\frac{5(x+1)}{3} = \frac{3(1+x)}{2}$	11) $\frac{2x-9}{3x-2} = -3$
5) $\frac{3(2+5x)}{4} = \frac{2(6x-3)}{5}$	12) $\frac{2}{3x+10} = \frac{1}{x-1}$
6) $\frac{2(3x-5)}{3} = \frac{-4(x-2)}{7}$	13) $\frac{2}{7x+3} = \frac{9}{2x-5}$
7) $\frac{1}{2}(2x-6) = \frac{1}{4}(8-12x)$	14) $\frac{8}{6x+12} = \frac{11}{7x-10}$

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Class 7 Maths worksheet By Entrancei

2. (c) Four times of $x = 4x$
Then, according to question
 $4x+6 = 34$

3. What is the value of p , if $(5p-2) = (1+2p)$
(a) 2 (b) 1
(c) 3 (d) 4

3. (b) $(5p-2) = (1+2p)$
 $5p-2p = 1+2$
 $3p = 3, p = 3/3 = 1$

4. The equation $3p+6 = 21$ in the statement form is
(a) Two times of p and plus 6 is 21.
(b) Three times of p and plus 6 is 21.
(c) Four times of p and plus 6 is 21.
(d) Three times of x and plus 6 is 21.

4. (b) Three times of $p = 3p$
 $3p$ plus six is 21, $3p+6 = 21$

5. What is the value of q , if $2q+6 = 12$
(a) 2 (b) 1
(c) 3 (d) -1


5. (c) The given equation is $2q+6 = 12$
subtracting 6 on both the sides
 $2q+6-6 = 12-6$
 $2q = 6$ (dividing by 2 on both the sides)
 $q = 3$

6. What is the value of a , if $\frac{a}{3} = \frac{7}{4}$
(a) $\frac{21}{4}$ (b) $\frac{20}{3}$
(c) $\frac{28}{3}$ (d) $\frac{21}{31}$

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7th Grade
CCSS 7.EE.B.4

Solving Linear Equations (B)



Solve the equations to find x .

Section A

1) $7x + 9 = 23$	4) $9x + 5 = 41$	7) $10x + 2 = 72$	11) $8x + 11 = 15$
2) $5x + 7 = 42$	5) $4x + 2 = 34$	8) $7x + 3 = 52$	12) $4x + 17 = 18$
3) $4x + 3 = 51$	6) $11x + 3 = 36$	9) $6x + 5 = 17$	
	10) $4x + 7 = 9$		

Section B

1) $1+6x = 19$	4) $11+5x = 71$	7) $23 = x+8$	11) $7 = 8x+3$
2) $9+7x = 30$	5) $5+3x = 32$	8) $28 = 3x+1$	12) $12 = 7+15x$
3) $3+2x = 17$	6) $4+5x = 44$	9) $53 = 8x+5$	
	10) $13 = 11+4x$		

Section C

1) $4x - 1 = 31$	3) $6x - 5 = 31$	6) $7x - 3 = 18$	9) $12x - 9 = 39$
2) $3x - 4 = 29$	4) $8x - 2 = 46$	7) $9x - 4 = 32$	10) $2x - 1 = 2$
	5) $2x - 7 = 21$	8) $5x - 1 = 64$	11) $4x - 8 = 10$
			12) $15x - 2 = 3$

Section D

1) $x - 3 = -2$	4) $x + 3 = 2$	6) $x + 10 = -5$	9) $2x - 18 = -20$
2) $x - 5 = -1$	5) $x + 9 = 4$	7) $2x - 3 = -9$	10) $2x + 5 = 1$
3) $x - 6 = -4$		8) $2x - 10 = -2$	11) $2x + 14 = 4$
			12) $2x + 11 = -5$

Section E

1) $5 - x = 2$	3) $6 - x = 3$	6) $7 - x = 21$	9) $8 - 2x = 12$
2) $9 - x = 5$	4) $8 - x = 14$	7) $3 - 2x = 5$	10) $2 - 3x = 14$
	5) $2 - x = 15$	8) $5 - 2x = 15$	11) $6 - 3x = 27$
			12) $16 - 5x = 61$

Section F

1) $3x - 1 = 14$	5) $1 - x = 6$	9) $34 = -6 + 5x$	15) $6x - 16 = -70$
2) $x - 4 = -3$	6) $8 + 5x = 63$	10) $6 + 11x = -5$	16) $-9 - 4x = -53$
3) $3 + 2x = 17$	7) $16 - 2x = 40$	11) $-29 = 3 + 4x$	
4) $7x - 6 = 50$	8) $34 = 6 - 4x$	12) $6x + 13 = 25$	
		13) $3 - 2x = 5$	
		14) $8x + 42 = -54$	

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