## Routine Linear Solving Practice \#2

1. $11 x-9=2$
2. $10-8 x=4$
3. $6 x+4=-7$
4. $7+6 x=3$
5. $-3=8 x+8$
6. $6 x-10=8$
7. $6+3 x=6$
8. $7 x+3=5$
9. $5-2 x=-2$
10. $5 x+7=-12$
11. $6-2 x=-10$
12. $9 x+10=11$
13. $7 x-4=2 x-6$
14. $6-5 x=9-x$
15. $x+5=10 x+9$
16. $2-8 x=10$
17. $6(x-11)=5$
18. $9-10 x=7$
19. $8 x-3=10$
20. $5 x+5=2 x+8$

## Answers: Routine Linear Solving Practice \#2

The middle steps shown are to help locate errors. Students should show more working than this.

1. $11 x-9=2$
$11 x=2+9$
$x=11 \div 11$
$x=1$
2. $10-8 x=4$
$-8 x=4-10$
$x=-6 \div-8$
$x=0.75$
$=3 / 4$
3. $6 x+4=-7$
$6 x=-7-4$
$x=-11 \div 6$
$x=-1.833$
$=-11 / 6$
4. $7+6 x=3$
$6 x=3-7$
$x=-4 \div 6$
$x=-0.667$
$=-2 / 3$
5. $-3=8 x+8$
$-3-8=8 x$
$-11 \div 8=x$
$x=-1.375$
$=-11 / 8$
6. $6 x-10=8$
$6 x=8+10$
$x=18 \div 6$
$x=3$
7. $6+3 x=6$
$3 x=6-6$
$x=0 \div 6$
$x=0$
8. $7 x+3=5$
$7 x=5-3$
$x=2 \div 7$
$x=0.286$
$=2 / 7$
9. $5-2 x=-2$
$-2 x=-2-5$
$x=-7 \div-2$
$x=3.5$
$=7 / 2$
10. $5 x+7=-12$
$5 x=-12-7$
$x=-19 \div 5$
$x=-3.8$
$=-19 / 5$

11
12. $9 x+10=11$
$9 x=11-10$
$x=1 \div 9$
$x=0.111$
$=1 / 9$
13. $7 x-4=2 x-6$
$7 x-2 x=-6+4 \quad 5 x=-2$
$x=-0.4$
$=-2 / 5$
14. $6-5 x=9-x$
$6-9=-x+5 x$
$-3=4 x$
$x=-0.75$
$=-3 / 4$
15. $x+5=10 x+9$
$5-9=10 x-x$
$-4=9 x$
$x=-0.444 \quad=-4 / 9$
16. $2-8 x=10$
$-8 x=10-2$
$x=8 \div-8$
$x=-1$
17. $6(x-11)=5$
$6 x-66=5$
$6 x=71$
$x=11.833$
$=71 / 6$
18. $9-10 x=7$
$-10 x=7-9$
$x=-2 \div-10$
$x=0.2$
19. $8 x-3=10$
$8 x=10+3$
$x=13 \div 8$
$x=1.625$
$=13 / 8$
20. $5 x+5=2 x+8$
$5 x-2 x=8-5$
$3 x=3$
$x=1$

It is preferable to leave answers in improper fraction form, provided it is simplified and any negative sign is on the numerator. Decimal form is not better.

