## Section 3.6 Solving Decimal Equations

## *Round-off error* The difference between the exact answer and a rounded answer.

## Examples

aring the cost of a monthly phone DM. bill? X = an + Cach pro- 4x = 58.35 x = 14.5025 x = 14.5025 x = 14.57 x = 14.57 y = 14.57 y = 14.571. Four people are sharing the cost of a monthly phone bill. If the bill is \$58.25, what is each person's share of the bill? 2. Solve 26x - 32 = 99. Round to the nearest tenth. 262-32=99 26 x = 151 x x 5.03846 3. Solve 9.92x - 6.13 = 5.96 - 7.28x. Round to the nearest hundredth.  $9.927 - 6.13 = 5.96 - 7.28 \times$ +7.38% 17.22 - 6.13 = 5.96 + 6.13 6.13 ルベ.7629 ルベ.7 4. Solve 3.7k - 2.5 = 6.1x - 12.2. Round to the nearest tenth. 3.09- 3.7x - 3.7x-3.5 = 3.4 - 12.2 + 1

5. You are shopping for a necklace to match your earrings. The sales tax is 6%. You have a total of \$21.25 to spend. What is your price limit for the necklace?

