


4.3 Exercises

FOR
EXTRA
HELP


 Addison-Wesley
Math Tutor Center

 MathXL

 Video Lectures
on CD

 Student's
Solutions
Manual

 MyMathLab

 Interactmath.com

Find each sum or difference. See Examples 1–4.

1. $5.69 + 11.79$

2. $372.1 - 33.7$

3. $24.008 - 0.995$

4. $0.7759 + 9.8883$

5. $8.263 - 0.5$

6. $47.658 - 20.9$

7. $76.5 + 0.506$

8. $1.87 + 9.749$

9. $21 - 0.896$

10. $9 - 1.183$

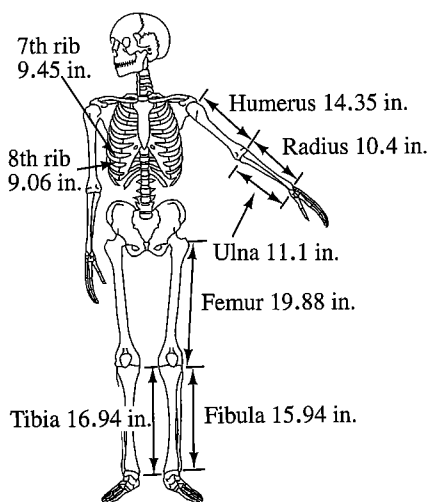
11. $0.4 - 0.291$

12. $0.35 - 0.088$

13. $39.76005 + 182 + 4.799 + 98.31 + 5.9999$

14. $489.76 + 0.9993 + 38 + 8.55087 + 80.697$

This drawing of a human skeleton shows the average length of the longest bones, in inches. Use the drawing to answer Exercises 15–18.



15. (a) What is the combined length of the humerus and radius bones?

(b) What is the difference in the lengths of these two bones?

16. (a) What is the total length of the femur and tibia bones?

(b) How much longer is the femur than the tibia?

17. (a) Find the sum of the lengths of the humerus, ulna, femur, and tibia.

(b) How much shorter is the 8th rib than the 7th rib?

18. (a) What is the difference in the lengths of the two bones in the lower arm?

(b) What is the difference in the lengths of the two bones in the lower leg?

19. Explain and correct the error that a student made when he added $0.72 + 6 + 39.5$ this way:
- $$\begin{array}{r} 0.72 \\ 6 \\ + 39.50 \\ \hline 40.28 \end{array}$$

20. Explain the difference between saying "subtract 2.9 from 8" and saying "2.9 minus 8."

\approx
Use front end rounding to round each number. Then add or subtract the rounded numbers to get an estimated answer. Finally, find the exact answer. See Example 5.

21. Estimate: Exact: 22. Estimate: Exact: 23. Estimate: Exact:
- $$\begin{array}{r} \underline{\quad} \\ - \end{array} \quad \begin{array}{r} \$19.74 \\ - 6.58 \\ \hline \end{array} \quad \begin{array}{r} \underline{\quad} \\ - \end{array} \quad \begin{array}{r} \$27.96 \\ - 8.39 \\ \hline \end{array} \quad \begin{array}{r} \underline{\quad} \\ + \end{array} \quad \begin{array}{r} 392.7 \\ 0.865 \\ + 21.08 \\ \hline \end{array}$$

24. Estimate: Exact: 25. What is 8.6 less 3.751? 26. What is 31.7 less 4.271?
- $$\begin{array}{r} \underline{\quad} \\ + \end{array} \quad \begin{array}{r} 38.55 \\ 7.716 \\ + 0.6 \\ \hline \end{array} \quad \begin{array}{r} \text{Estimate:} \\ \text{Exact:} \end{array} \quad \begin{array}{r} \text{Estimate:} \\ \text{Exact:} \end{array}$$

27. Estimate: Exact: 28. Estimate: Exact:
- $$\begin{array}{r} \underline{\quad} \\ + \end{array} \quad \begin{array}{r} 62.8173 \\ 539.99 \\ + 5.629 \\ \hline \end{array} \quad \begin{array}{r} \underline{\quad} \\ + \end{array} \quad \begin{array}{r} 332.607 \\ 12.5 \\ + 823.3949 \\ \hline \end{array}$$

\approx
Use your estimation skills to pick the most reasonable answer for each example. Do **not** solve the problems. Circle your choice.

29. $12 - 11.725$
2.75 0.275 27.5
30. $20 - 1.37$
0.1863 1.863 18.63
31. $6.5 + 0.007$
6.507 0.6507 65.07
32. $9.67 + 0.09$
0.976 9.76 0.00976
33. $456.71 - 454.9$
18.1 181 1.81
34. $803.25 - 0.6$
802.65 0.80265 8.0265
35. $6004.003 + 52.7172$
60.567202 605.67202 6056.7202
36. $128.35 + 97.0093$
2253.593 225.3593 0.2253593