



Additional Practice 2-1 Mental Math

Another Look!

You can use properties of addition, compatible numbers, or compensation to help you find the answers.



Use properties of addition to find $5.7 + 6 + 4.3$.

$$\begin{array}{l}
 5.7 + 6 + 4.3 \\
 \quad \quad \quad \swarrow \quad \searrow \\
 \quad \quad \quad \text{Use the Commutative Property.} \\
 5.7 + 4.3 + 6 \\
 \quad \downarrow \quad \text{Add.} \\
 10 + 6 = 16
 \end{array}$$

Use compensation to find $12.7 + 0.9$.

$$\begin{array}{l}
 12.7 + 0.9. \\
 \quad \downarrow \quad \text{Add 0.1 to 0.9.} \\
 12.7 + 1 = 13.7 \\
 \quad \quad \downarrow \quad \text{Subtract 0.1.} \\
 12.7 + 0.9 = 13.6
 \end{array}$$

Use compensation to find $18.3 - 6.9$.

$$\begin{array}{l}
 18.3 - 6.9. \\
 \quad \downarrow \quad \text{Add 0.1 to 6.9.} \\
 18.3 - 7 = 11.3 \\
 \quad \quad \downarrow \quad \text{0.1 too much was subtracted. Add 0.1.} \\
 18.3 - 6.9 = 11.4
 \end{array}$$

Leveled Practice In 1–15, use properties and mental math to solve.

1. $275 + 180 + 120 =$
 $275 + \underline{300} =$
 $\underline{575}$

2. $19.5 + 24 + 7.5 =$
 $19.5 + \underline{7.5} + 24 =$
 $\underline{27} + 24 = \underline{51}$

3. $87.2 - 25.9 =$
 $87.2 - \underline{26} = 61.2$
 $\underline{61.2} + 0.1 = \underline{61.3}$

4. $8.4 + 6.21 + 2.6$
 $\underline{17.21}$

5. $7.35 + 1.47 + 9.65$
 $\underline{18.47}$

6. $12.32 - 8$
 $\underline{4.32}$

7. $75.25 - 11.92$
 $\underline{63.33}$

8. $34.76 + 170 + 16.24$
 $\underline{221}$

9. $54.3 - 19.74$
 $\underline{34.56}$

10. $192.63 - 7.95$
 $\underline{184.68}$

11. $201.96 + 38.7 + 0.84$
 $\underline{241.5}$

12. $100.6 + 296.5$
 $\underline{397.1}$

13. $421.2 - 305.8$
 $\underline{115.4}$

14. $1,050 + 815 + 250$
 $\underline{2,115}$

15. $\$5.40 + \$8.70 + \$6.30$
 $\underline{\$20.40}$



- 16.** James is buying school supplies. He buys a notebook for \$2.45, a package of mechanical pencils for \$3.79, and an eraser for \$1.55. Use mental math to find how much he spent in all.

\$7.79



- 17. Generalize** How is using mental math to add with decimals like using mental math to add whole numbers? How is it different?

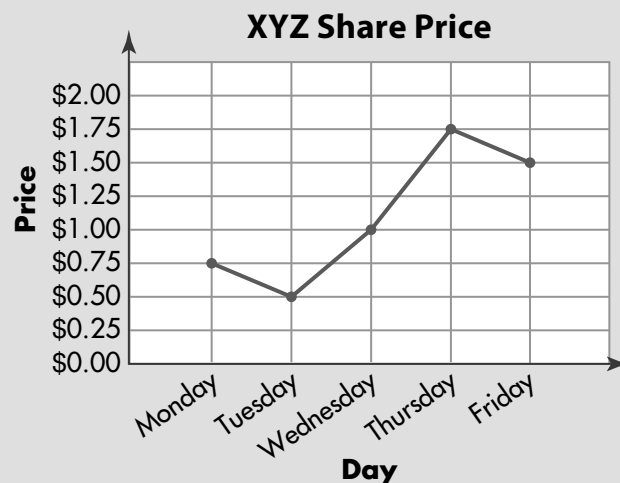
Sample answer: It is similar because you use numbers that are easy to add. It is different because with decimals, you are looking for decimal parts that add to 1 or 0.5.

- 18.** Isabel made the following graph to show the daily share price for Company XYZ. What was the change in the price from Monday to Friday?

\$0.75

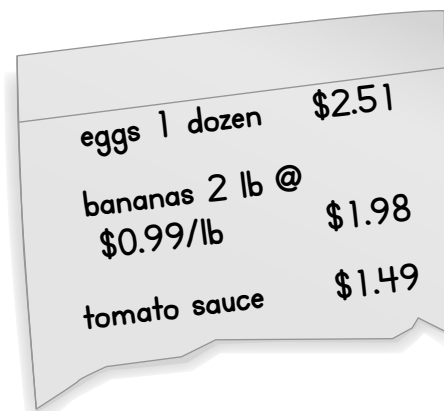


What is the scale on the graph?



- 19. Higher Order Thinking** Julia went to the supermarket and bought a dozen eggs, two pounds of bananas, and a jar of tomato sauce. A store coupon for \$0.70 off any purchase does not appear on the receipt. If Julia used the coupon, how much did she spend in all?

\$5.28



Assessment Practice

- 20.** In a week Karry ran 9.3 miles and Tricia ran 4.4 miles. Use mental math to find how much farther Karry ran than Tricia. Explain how you determined the difference.

4.9 miles farther; Sample explanation: I added 0.1 to 9.3 to get 9.4. Then I found $9.4 - 4.4 = 5$. Then I subtracted 0.1 from 5 to get a difference of 4.9.