

Adding and Subtracting Whole Numbers and Decimals

RETEACHING

Topic 2 Reteaching

Set A, pages 24–26

Add $53 + 11 + 7$ using mental math.

Use compatible numbers.

Tip Compatible numbers are easy to add.

53 and 7 are compatible numbers.

The Commutative Property of Addition allows us to add in any order.

$$\begin{aligned} 53 + 11 + 7 &= 53 + 7 + 11 \\ &= 60 + 11 \\ &= 71 \end{aligned}$$

So, $53 + 11 + 7 = 71$

Remember that you can use compatible numbers or compensation to find sums and differences.

Use mental math to add.

1. $67 + 28$
95
2. $130 + 470$
600
3. $35 + 14 + 6$
55
4. $96 + 234 + 4$
334
5. $276 - 99$
177
6. $127 + 99$
226
7. $241 + 2 + 98$
341
8. $86 - 49$
37

Set B, pages 28–29

Round 12.087 to the place of the underlined digit.

Look at the digit following the underlined digit. Look at **7**.

Round to the next greater digit of hundredths because $7 > 5$.

12.087 is about 12.09.

Round 9.073 to the place of the underlined digit.

Look at the digit following the underlined digit. Look at **0**.

Since $0 < 5$ the digit in the ones place remains the same.

9.073 is about 9.

Remember that rounding a number means replacing it with another number that tells about how much or how many.

Round each number to the place of the underlined digit.

1. 10.245 2. 73.4
3. 9.145 4. 3.999
5. 67.901 6. 13.023
7. 99.102 8. 45.398
9. 0.153 10. 0.625
11. 8.978 12. 5.739
13. 9.999 14. 79.5
15. 3.091 16. 2.432

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Set C, pages 30–32

Estimate $19.9 + 17.03$.

$$\begin{array}{r} 19.9 \rightarrow 20 \\ + 17.03 \rightarrow + 17 \\ \hline 37 \end{array}$$

Tip Round to the nearest whole number.

$19.9 + 17.03$ is about 37.

Estimate $22.4 - 16.2$.

$$\begin{array}{r} 22.4 \rightarrow 20 \\ - 16.2 \rightarrow - 15 \\ \hline 5 \end{array}$$

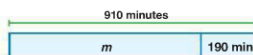
Tip Use compatible numbers.

$22.4 - 16.2$ is about 5.

Set D, pages 34–36

Draw a picture and write an equation. Solve.

Over the summer, Martin exercises 190 minutes more each week than during the school year. If Martin exercises 910 minutes per week in the summer, how many minutes per week does he exercise during the school year?



Let m = minutes per week of exercise during the school year

$$\begin{array}{r} 910 - 190 = m \\ m = 720 \end{array}$$

Martin exercises 720 minutes per week during the school year.

Remember using compatible numbers to estimate is easier than rounding.

Estimate each sum or difference.

Sample estimates are given.

1. $76 + 23$
100
2. $15.01 - 4.4$
11
3. $8,001 + 2,890$
11,000
4. $25,003 - 12,900$
12,000
5. $9.5 + 9 + 8.6$
28
6. $34 + 37 + 30$
100

Remember that drawing a picture can help you before writing an equation to solve a problem.

Draw a picture and write an equation. Solve.

1. Jay's parents celebrated their 25th wedding anniversary in 2005. In what year were they married?
1–3 See margin.
2. One football stadium, built in 1982, has 64,035 seats. Another stadium, built in 1987, has 74,916 seats. How many more seats does the newer stadium have?
3. In Helen's class, there are 13 girls and 17 boys. Megan's class has the same number of students, but there are 20 girls in her class. How many boys are in Megan's class?

Answers, Set D

1.
 $2005 - 25 = y$; $y = 1980$
2.
 $74,916 - 64,035 = s$;
 $s = 10,881$ seats
3.
 $30 - 20 = b$; $b = 10$ boys