SPECTRUM®

Word Problems

CORRELATED TO THE
Common Core State Standards
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Focused Practice for Word Problem Mastery

- • **Real world applications**
- • **Multi-step word problems**
- • **Fractions, decimals, and money**
- • **Metric and customary measurement**
- • **Graphs and probability**
- • **Geometry**
- • **Preparing for algebra**

Check What You Know

Adding and Subtracting 1 and 2 Digits

Read the problem carefully and solve. Show your work under each question.

Tanya, Ricardo, Tim, and Sandra participate in their school read-a-thon. They keep track of how many pages they read. After 3 days, Tanya has read 129 pages. Ricardo has read 98 pages. Tim has read 72 pages, and Sandra has read 84 pages.

1. How many pages altogether have Tanya and Ricardo read?

_____ pages

3. Sandra, Tim, and Ricardo want to know how many pages altogether they have read. How many total pages have they read?

_____ pages

2. How many more pages has Tanya read than Tim?

_____ pages

4. Sandra read more over the weekend. She figures out that she has now read a total of 122 pages for the read-a-thon. How many pages did she read over the weekend? Write the number sentence Sandra can use to check her answer.

_____ pages

Answer check:

_____

Lesson 1.1 Adding 1- and 2-Digit Numbers

Read the problem carefully and solve. Show your work under each question.

Jasmine and Aaron collect different types of rocks. Jasmine has 11 rocks in her collection. Aaron has 10 rocks in his collection.

Helpful Hint

To find the sum:

1. add the ones first
2. add the tens next

$$
\begin{array}{r}
2\ 2 \\
+\ 1\ 6 \\
\hline
3\ 8
\end{array}
$$

1. One of Jasmine's sisters gave her 3 rocks. Her other sister gave her 4 more rocks. How many rocks did Jasmine get from her two sisters?

_____ rocks

2. How many rocks does Jasmine have now?

_____ rocks

3. Aaron goes on a school field trip and finds 11 more rocks. How many rocks altogether does he have?

_____ rocks

4. Jasmine and Aaron decide to combine their rock collections. What is the total number of rocks they have?

_____ rocks

Lesson 1.2 Subtracting 1- and 2-Digit Numbers

Read the problem carefully and solve. Show your work under each question.

Marino is selling raffle tickets. He sold 3 tickets on Monday and 6 tickets on Tuesday. On Wednesday, he sold 16 tickets, and he sold 18 tickets on Thursday.

Helpful Hint

To find the difference:

1. subtract the ones first
2. subtract the tens next

$$\begin{array}{r} 4\ 8 \\ -\ 2\ 6 \\ \hline 2\ 2 \end{array}$$

1. How many more tickets did Marino sell on Tuesday than Monday?

_____ tickets

2. Marino wants to compare the number of tickets he sold on Wednesday to the number of tickets he sold on Tuesday. What is the difference?

_____ tickets

3. How many more tickets did Marino sell on Thursday than Wednesday?

_____ tickets

4. On Friday, Marino sold 6 fewer tickets than he did on Thursday. How many tickets did he sell on Friday?

_____ tickets

Lesson 1.3 Adding 3 or More Numbers (single digit)

Read the problem carefully and solve. Show your work under each question.

Amit plays a game with his friend Melissa. After four rounds, they decide to stop and add up their points to see who is ahead. Amit's points after four rounds are: 4, 3, 7, and 4. Melissa's points after four rounds are: 8, 3, 3, and 2.

Helpful Hint

When adding 3 or more numbers, look for pairs that are easy to add first:

$$\begin{array}{r} 6 \\ 4 \\ + 3 \\ \hline \end{array} \quad \begin{array}{r} 10 \\ + 3 \\ \hline 13 \end{array}$$

1. How many points does Amit have after four rounds? Which two pairs of numbers should he add first?

_____ points

_____
should be added first.

2. Is Melissa's score higher or lower than Amit's score? How many points does Melissa have?

Melissa's score is _____ than Amit's score.

Melissa has _____ points.

3. Amit and Melissa play another three rounds. Amit scores 6, 7, and 4 points. How many points does he score during these three rounds?

_____ points

4. Melissa scores 8, 3, and 8 points when she plays three more rounds with Amit. How many points does she score during these three rounds?

_____ points

Lesson 1.4 Adding through 2 Digits (with renaming)

Read the problem carefully and solve. Show your work under each question.

Theresa's soccer team had a car wash over the weekend to raise money. On Saturday, the team washed 18 cars before lunch. They washed 26 cars after lunch. On Sunday, the team washed 17 cars before lunch. They washed 19 cars after lunch.

1. How many cars did the team wash on Saturday?

_____ cars

> **Helpful Hint**
>
> 1. Find the total number of cars the team washed both mornings.
> 2. Find the total number of cars the team washed both afternoons.
> 3. Compare both numbers.

2. How many cars did the team wash on Sunday?

_____ cars

4. The team plans to hold another car wash. They want to find out what part of the day they washed the most cars. Did the team wash more cars before or after lunch during both days?

The team washed more cars

_____ lunch.

3. How many cars altogether did Theresa's team wash over the weekend?

_____ cars

Lesson 1.5 Adding Three or More Numbers (2 digit)

Read the problem carefully and solve. Show your work under each question.

Meiko and Carlos want to survey the students at their school. Each grade they plan to survey has three classrooms. Meiko and Carlos listed the number of students in each classroom on the table to the right.

Grade	Number of Students in each Class
Third	20, 18, 19
Fourth	25, 18, 23
Fifth	19, 23, 26
Sixth	21, 25, 23

1. How many students are in the third grade?

_____ students

3. How many students are in the fourth grade?

_____ students

2. Which grade has more students, fifth or sixth grade?

The _____ grade has more students.

Helpful Hint

Find the total number of sudents in each grade. Then, add the four amounts together to find the total number of students in all four grades.

4. Meiko and Carlos need to find the total number of students in all four grades. How many students are there?

_____ students

Lesson 1.6 Subtracting 2 Digits from 3 Digits (with renaming)

Read the problem carefully and solve. Show your work under each question.

The Garcia family collected 253 shells on the beach during their summer vacation. Isabella, Marco, and their little sister Maria each want to use some of the shells from the collection for a craft project.

Helpful Hint

To find the difference, subtract the **minuend** from the **subtrahend**. Rename numbers if necessary:

minuend	3 6 4
subtrahend	− 8 7
difference	2 7 7

1. Isabella takes 78 shells for her project. How many shells are left in the Garcia family's collection?

_____ shells

2. After Isabella, Maria takes 47 shells. How many shells are now left in the Garcia family's collection?

_____ shells

3. Marco plans to use 59 shells for his project. He takes his shells after Isabella and Maria. How many shells are left in the Garcia family's collection?

_____ shells

4. Isabella's friend Anya also collected shells with her family. Anya's family collected 218 shells. Isabella's family collected 253 shells. What is the difference between the number of shells each family collected?

_____ shells

Lesson 1.7   Checking Addition and Subtraction Problems

Read the problem carefully and solve. Show your work under each question.

Marisa and her friend Sean each have a baseball card collection. Marisa has 78 cards in her collection. Sean has 113 cards in his collection. Marisa and Sean always keep track of how many cards they have in their collections.

Helpful Hint

Subtraction to check addition:

$$\begin{array}{r} 4\;5 \\ +\;3\;2 \\ \hline 7\;7 \end{array} \qquad \begin{array}{r} 7\;7 \\ -\;3\;2 \\ \hline 4\;5 \end{array}$$

Addition to check subtraction:

$$\begin{array}{r} 1\;4\;7 \\ -\;\;2\;9 \\ \hline 1\;1\;8 \end{array} \qquad \begin{array}{r} 1\;1\;8 \\ +\;\;2\;9 \\ \hline 1\;4\;7 \end{array}$$

1. Marisa gets 23 more baseball cards from her brother. Marisa calculates she now has 101 cards. Write the number sentence Marisa can use to check her answer.

_____

2. Sean gives 18 cards to his friend Alberto. How many cards does Sean have left? Write the number sentence Sean can use to check his answer.

_____ cards

Answer check:

_____

3. Marisa's cousin Mark has 84 baseball cards. How many more cards does Marisa have than Mark? Write the number sentence Marisa can use to check her answer.

_____ cards

Answer check:

_____

Check What You Learned

Adding and Subtracting 1 and 2 Digits

Read the problem carefully and solve. Show your work under each question.

The fourth grade classes collect bottles to recycle. At the end of the week, Mr. Chen's class collected 94 bottles. Ms. Flynn's class collected 132 bottles. Mr. Jackson's class collected 79 bottles, and Ms. Vega's class collected 87 bottles.

1. How many bottles altogether did Ms. Flynn's class and Mr. Jackson's class collect?

_____ bottles

2. How many more bottles did Ms. Flynn's class collect than Ms. Vega's class?

_____ bottles

3. How many bottles altogether did Mr. Chen's, Mr. Jackson's, and Ms. Vega's classes collect?

_____ bottles

4. The students in Mr. Chen's class brought in more bottles the following week. They had collected a total of 153 bottles to recycle. How many bottles did the students bring in the following week? Write the number sentence Mr. Chen's class can use to check their answer.

_____ bottles

Answer check:

_____

Check What You Know

Numeration through 1,000,000

Read the problem carefully and solve. Show your work under each question.

Toshiro, Leon, Laura, and Inez want to compare the population of the cities where they live. There are 1,068,352 people living in Toshiro's city. Leon's city has a population of 983,832, and Laura's city has a population of 785,342. There are 984,421 people living in Inez's city.

1. What is the value of the number in the hundred thousands place in the population of Laura's city?

_____

3. Leon and Inez decide to compare the populations of both their cities. Compare the two numbers using $<$, $>$, or $=$.

_____

2. Toshiro wants to write the population of his city in expanded form. How is this number written in expanded form?

_____

_____

How is this number written using number names?

_____

_____

4. Toshiro wants to round the population of his city to the nearest ten thousand. What is this number rounded to the nearest ten thousand?

_____