

LessonObjective: Students will solve problems involving operations with whole numbers, perform computations with whole numbers, and review how to check solutions.

WarmUp

1 12. $2219 + 872$

13.
$$\begin{array}{r} 5351 \\ + 1730 \\ \hline \end{array}$$

14. $3968 + 1879$

15. $7694 - 5232$

16. $9165 - 4729$

17.
$$\begin{array}{r} 2416 \\ - 1983 \\ \hline \end{array}$$

2 18.
$$\begin{array}{r} 84 \\ \times 37 \\ \hline \end{array}$$

19. 124×56

20. 419×236

3 21. $837 \div 27$

22.
$$\frac{588}{84}$$

23. $7440 \div 124$

Handwritten red work for problem 21:
$$\begin{array}{r} 30 \\ \overline{) 837} \\ \underline{81} \\ 27 \\ \underline{27} \\ 0 \end{array}$$

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Lesson 1.1

September 5, 2014

Essential Question How do you know which operation to choose
when solving a real-life problem?

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Students will be able to:

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Self-Evaluation Scale

Score	Description
4	I can teach other students how to solve problems involving operations with whole numbers, perform computations with whole numbers, and review how to check solutions.
3	I can solve problems involving operations with whole numbers, perform computations with whole numbers, and review how to check solutions.
2	I recognize, but still need help to solve problems involving operations with whole numbers, perform computations with whole numbers, and review how to check solutions.
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Activity 1

With a partner, work on Activity 1 on page 2 of your Big Ideas text book.

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Activity 2&3

With a partner, work on Activity 2 & 3 on pages 3 of your Big Ideas text book.

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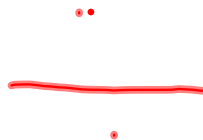


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$$(9)(6) = 54$$

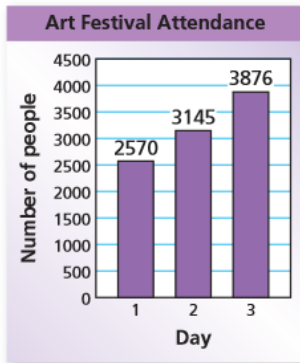
Operation	Words	Algebra
Addition	the <i>sum</i> of	$a + b$
Subtraction	the <i>difference</i> of	$a - b$
Multiplication	the <i>product</i> of	$a \times b$ $a \cdot b$
Division	the <i>quotient</i> of	$a \div b$ $\frac{a}{b}$ $b \overline{)a}$

$$(a)(b)$$



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EXAMPLE 1 Adding and Subtracting Whole Numbers



The bar graph shows the attendance at a three-day art festival.

a. What is the total attendance for the art festival?

You want to find the total attendance for the three days. In this case, the phrase *total attendance* indicates you need to find the sum of the daily attendances.

$$\begin{array}{r} 111 \\ 2570 \\ 3145 \\ + 3876 \\ \hline 9591 \end{array}$$

Line up the numbers by their place values, then add.

••• The total attendance is 9591 people.

b. What is the increase in attendance from Day 1 to Day 2?

You want to find how many more people attended on Day 2 than on Day 1. In this case, the phrase *how many more* indicates you need to find the difference of the attendances on Day 2 and Day 1.

Line up the numbers by their place values, then subtract.

$$\begin{array}{r} 10 \\ 2014 \\ 3145 \\ - 2570 \\ \hline 575 \end{array}$$

••• The increase in attendance from Day 1 to Day 2 is 575 people.

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EXAMPLE 2 Multiplying Whole Numbers

A school lunch contains 12 chicken nuggets. Ninety-five students buy the lunch. What is the total number of chicken nuggets served?

You want to find the total number of chicken nuggets in 95 groups of 12 chicken nuggets. The phrase *95 groups of 12* indicates you need to find the product of 95 and 12.

$$\begin{array}{r} 12 \\ \times 95 \\ \hline 60 \\ 108 \\ \hline 1140 \end{array}$$

Multiply 12 by the ones digit, 5.
Multiply 12 by the tens digit, 9.
Add.

••• There were 1140 chicken nuggets served.

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OnYourOwn

Find the value of the expression. Use estimation to check your answer.

1. $1745 + 682$

2. $912 - 799$

3. 42×118

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EXAMPLE 3 Dividing Whole Numbers: No Remainder

You make 24 equal payments for a go-kart. You pay a total of \$840. How much is each payment?



You want to find the number of groups of 24 in \$840. The phrase *groups of 24 in \$840* indicates you need to find the quotient of 840 and 24.

Use long division to find the quotient. Decide where to write the first digit of the quotient.

$$\begin{array}{r} ? \\ 24 \overline{)840} \end{array}$$

Do not use the hundreds place because 24 is greater than 8.

$$\begin{array}{r} ? \\ 24 \overline{)840} \end{array}$$

Use the tens place because 24 is less than 84.

So, divide the tens and write the first digit of the quotient in the tens place.

$$\begin{array}{r} 3 \\ 24 \overline{)840} \\ \underline{-72} \\ 12 \end{array}$$

Divide 84 by 24: There are three groups of 24 in 84.
Multiply 3 and 24.
Subtract 72 from 84.

Next, bring down the 0 and divide the ones.

$$\begin{array}{r} 35 \\ 24 \overline{)840} \\ \underline{-72} \\ 120 \\ \underline{-120} \\ 0 \end{array}$$

Divide 120 by 24: There are five groups of 24 in 120.
Multiply 5 and 24.
Subtract 120 from 120.

The quotient of 840 and 24 is 35.

So, each payment is \$35.

DMSB

DMSB

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OnYourOwn

Find the value of the expression. Use estimation to check your answer.

8. $\frac{6096}{30}$

9. $45,691 \div 28$

10. $3215 \div 430$

$$\begin{array}{r} 30 \overline{)6096} \end{array}$$

$$\begin{array}{r} 28 \overline{)45691} \end{array}$$

$$\begin{array}{r} 430 \overline{)3215} \end{array}$$

DMSB

$$\begin{array}{r}
 0203.2 \\
 \hline
 30 \overline{) 6096.0} \\
 \underline{-60} \\
 096 \\
 \underline{-90} \\
 60 \\
 \underline{-60} \\
 0
 \end{array}$$

$$\begin{array}{r}
 01631 \quad 430 \overline{) 3215} \\
 \hline
 28 \overline{) 45691} \\
 \underline{-28} \\
 176 \\
 \underline{-168} \\
 80 \\
 \underline{-80} \\
 009 \\
 \underline{-08} \\
 11 \\
 \underline{-11} \\
 0
 \end{array}$$

$$\begin{array}{r}
 24 \\
 \times 7 \\
 \hline
 168
 \end{array}$$

$$\begin{array}{r}
 22 \\
 \times 27 \\
 \hline
 84
 \end{array}$$

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Assignment

In your Big Ideas Text Book complete problems 8 - 11 on page 7 and 29 - 34 on page 8.

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Homework

Worksheet 1.1

