

You asked why the order was so expensive. We need about two and a half bags of concrete for each structure. I rounded up to three bags per structure. There are ten structures. When you multiply that, it equals thirty bags. That part of the order was \$150. The cost of concrete plus the cost of rebar came to over \$600. When you add shipping costs, it totals \$650.

I can **subtract** a few items to save money. The total **minus** the cost of rebar is around \$175. Or, we can make several payments. The bill **divided by** three payments is about \$215. We could pay the **remainder** with the last payment. Let me know what you prefer.

Barbara

Get ready!

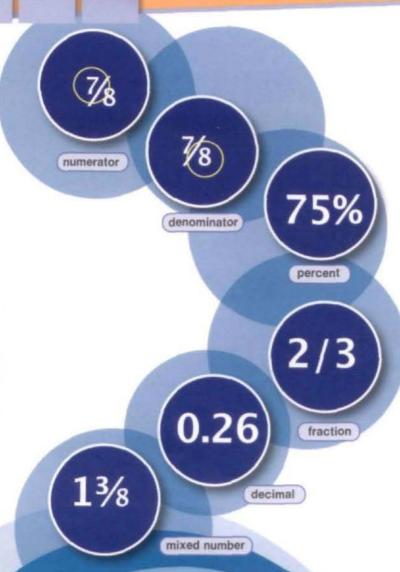
- Before you read the passage, talk about these questions.
 - 1 What calculations increase a total number?
 - 2 What calculations decrease a total number?

- 2 Read the email about the cost of materials. Then, mark the statements as true (T) or false (F).
 - 1 __ The company is working on thirty structures
 - 2 __ The cost of rebar was more expensive than the cost of concrete.
 - 3 _ Shipping costs were about \$175.

Vocabulary

- Match the words (1-5) with the definitions (A-E).
 - 1 _ subtract
- 4 _ round up
- 2 _ multiply
- 5 _ divide
- 3 _ add
- A to increase a number to a greater whole number, often ending in zero
- B to split a number into equal amounts
- C to take one number away from another
- D to combine two or more numbers
- E to add one number to itself a specific number of times

Decimals, fractions, and percents



The Construction Assistant:

Converting Decimals, Fractions, and Percents

- Reducing Fractions: Divide the numerator and denominator by the same number. Repeat if necessary until both cannot be divided into whole numbers.
- 2 Percentages: A percent is a fraction. Its denominator is 100. So 71% is equal to 71/100. In decimal form, this is 0.71. It is usually easier to do calculations with decimals instead of fractions. Convert measurements that are fractions to decimal form.
- 3 Convert a fraction to a decimal: Divide the numerator by the denominator.
 - 4 Convert a **mixed number** to a decimal: First, write the whole number. Place a decimal point to its right.

 Change the fraction to a decimal (see above).

 Then write it to the right of the decimal point.

Get ready!

- Before you read the passage, talk about these questions.
 - 1 What are some ways of showing numbers that are not whole?
 - 2 What is 's displayed as a percent?

Reading

- 2 Read the guide about converting fractions, decimals, and percents. Then, mark the statements as true (T) or false (F).
 - Divide the numerator and the denominator to reduce a fraction.
 - 2 _ The denominator of any percent is 100.
 - 3 __ Divide the denominator by the numerator to convert a fraction to a decimal.

Vocabulary

- (A-E). Watch the words (1-5) with the definitions
 - 1 _ numerator
- 4 _ whole number
- 2 _ fraction
- 5 __ denominator
- 3 _ percent
- A a number that is not divided into parts
- B the lower number of a fraction
- C a ratio of two numbers, expressed with one number written above the other
- D the upper number of a fraction
- E a number that expresses a part of something per hundred
- Fill in the blanks with the correct words and phrases from the word bank.

decimal convert percentage reduce mixed number 1 The expression 12 2/3 is a ______.

accurate than fractions.

2		that fraction to its simplest terms.
3	What	of the insulation is installed?
4	Please	that fraction to a decimal.
5		numbers are usually more