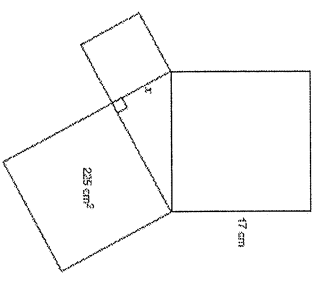


TIC TEKS TOE #1

The right triangle shown below is formed by joining three squares at their vertices.



What is the value of x , the side length of the smallest square?

A fast train, known as a bullet train, travels at an average speed of 163 miles per hour. The equation below shows the relationship between d , the number of miles the train travels, and t , the number of hours it travels.

$$d = 163t$$

What is the distance in miles the train will travel in $1\frac{1}{2}$ hours?

Record your answer and fill in the bubbles on your answer document. Be sure to use the correct place value.

The table below shows monthly water rates for using g gallons of water.

Monthly Water Rates	
Water Used (gallons)	Total Cost (dollars)
First 8,000	7
8,001 to 13,000	$7 + 0.0012(g - 8,000)$
13,001 to 18,000	$13 + 0.002(g - 13,000)$
More than 18,000	$23 + 0.0032(g - 18,000)$

What is the total cost for a business that uses 10,000 gallons in one month?

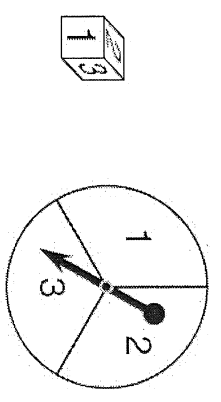
A store's records showed that during a one-month period, 3 gallons of milk were sold for every 2 boxes of cereal sold. If 2,864 boxes of cereal were sold that month, how many gallons of milk were sold?

Gabby can assemble 7 music books in 4 minutes. At this rate, how many music books can she assemble in 2 hours?

Marcos buys 15 folders that cost \$0.75 each and 6 pens that cost \$1.2 each. What is the total cost in dollars and cents of the folders and pens, not including tax?

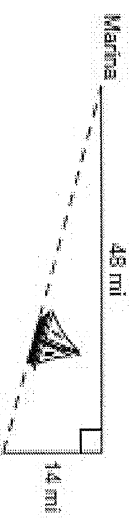
Record your answer and fill in the bubbles on your answer document. Be sure to use the correct place value.

Mr. Nichols rolls a fair number cube with faces numbered 1 through 6 and spins a spinner. The cube and the spinner are shown below.



What is the probability of rolling a 3 and spinning a 3? (as a percent)

Tai sailed east from the marina for 48 miles and then sailed south for 14 miles, as shown in the diagram.



What is the shortest distance Tai can sail to return to the marina?

Terri combined $\frac{1}{2}$ gallon of cranberry juice, 1 quart of apple juice, 46 ounces of ginger ale, and 8 ounces of pineapple juice to make punch. How many 6-ounce servings did she make?

TIC TEKS TOE Answer Sheet

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