

Name \_\_\_\_\_

Date \_\_\_\_\_

## A Tablespoon of Oil

A tablespoon holds 15 ml of olive oil, which is 3 times as much as a teaspoon holds. How many ml of olive oil does a teaspoon hold?

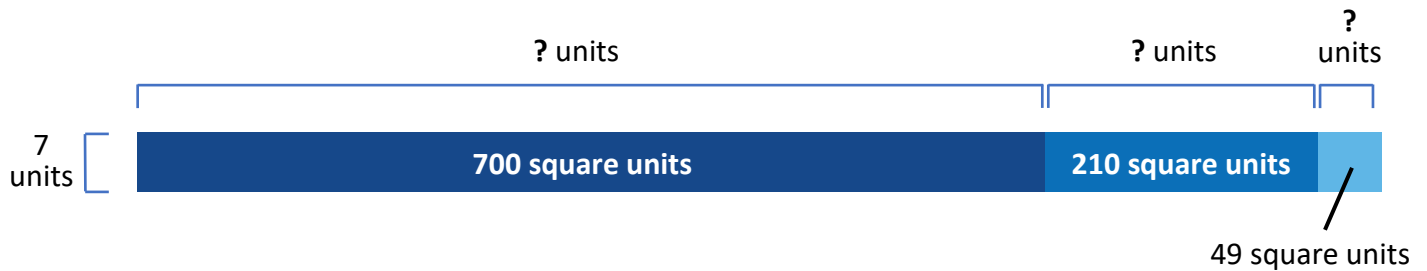
Equation model: \_\_\_\_\_

Answer: \_\_\_\_\_

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## Multi-Digit Division Concepts



(1) Find the three missing lengths and write them on the diagram.

(2) What is the total area of the diagram?

(3) Look for connections between the diagram and the division problem. What connections can you see?

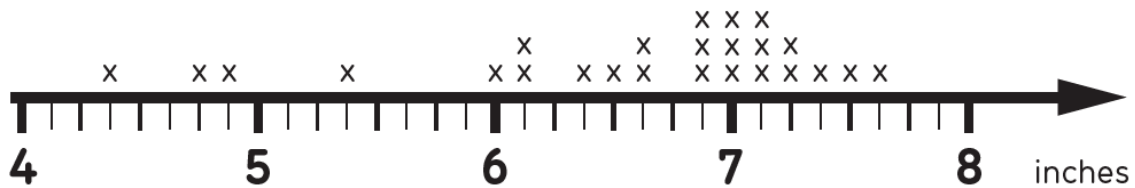
$$\begin{array}{r} 137 \\ 7 \overline{) 959} \\ - 700 \\ \hline 259 \\ - 210 \\ \hline 49 \\ - 49 \\ \hline 0 \end{array}$$

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## Pencil Data

Everyone in class measured the length of their pencil. Here are the measurements:



- (1) How many pencils were measured?
- (2) How much longer was the longest pencil than the shortest pencil?
- (3) Could two of the pencils be laid end to end to make a total length of 1 foot?

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## Comparing Fractions with Equivalence

(1) Compare  $\frac{5}{9}$  to  $\frac{4}{7}$ . First do it by making equal denominators. Then do it by making equal numerators.

(2) Ariana said, " $\frac{300}{400}$  looks greater than  $\frac{3}{4}$ . How can they be the same size?"

Write or say an explanation that could help Ariana understand why  $\frac{300}{400}$  and  $\frac{3}{4}$  are the same size.

(3) Which is closer to 1 on a number line,  $\frac{4}{5}$  or  $\frac{5}{4}$ ? Draw a number line and show  $\frac{4}{5}$  and  $\frac{5}{4}$  accurately on the number line.

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## Fraction Products and Properties

(1) Write the values of the products. Compare answers with a classmate.

(a)  $4 \times \frac{1}{7} =$  \_\_\_\_\_

(b)  $6 \times \frac{4}{7} =$  \_\_\_\_\_

(c)  $86 \times \frac{1}{86} =$  \_\_\_\_\_

(d)  $6 \times \frac{8}{2} =$  \_\_\_\_\_

(e)  $9 \times \frac{1}{9} =$  \_\_\_\_\_

(f)  $9 \times \frac{2}{9} =$  \_\_\_\_\_

(g) Which answer is twice as much as the answer for (e)? \_\_\_\_\_

(h) Which answer is six times as much as the answer for (a)? \_\_\_\_\_

(i) Which two answers are equal? \_\_\_\_\_

(2) Zoe was reading her math book. She saw the equation  $6 \times (4 + \frac{1}{2}) = 24 + 3$ . She said, "I don't get it—where did the 24 and the 3 come from?" Write an explanation that could answer Zoe's question.

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## Jar of Pennies

Grandpa took a jar of pennies to the bank. He said, "I'd like nickels for this, please." The bank teller poured the pennies into a counting machine. "Eighty-seven dollars and forty-two cents," said the teller.

(1) How many nickels did Grandpa get?

(2) Check your answer with an estimate.

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## Fraction Sums and Differences

Write the values of the expressions. Read each completed equation aloud.

(1) 3 fifths + 2 fifths = \_\_\_\_\_

(2)  $\frac{6}{25} + \frac{6}{25} =$  \_\_\_\_\_

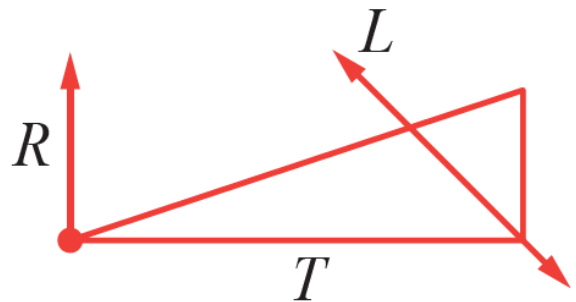
(3)  $\frac{1}{8} + \frac{5}{8} - \frac{3}{8} =$  \_\_\_\_\_

(4)  $\frac{1}{10} + \frac{3}{100} =$  \_\_\_\_\_ (fraction)  
= \_\_\_\_\_ (decimal)

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$L$  is a line,  $R$  is a ray, and  $T$  is a triangle.



True or false:

- (1) Line  $L$  is a line of symmetry for triangle  $T$ . True False
- (2) Line  $L$  intersects ray  $R$ . True False
- (3) Triangle  $T$  has two angles measuring less than 90 degrees. True False



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## Fitness Day

In gym it was fitness day. Students ran laps around the gym.



Leslie

I ran  $1\frac{2}{3}$  more laps than Catherine.

I ran  $6\frac{1}{3}$  laps.

How many laps did Catherine run?

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## Calculating Products and Quotients

Write the values of the products and quotients. Check the quotients by multiplying.

(1) Calculate with pencil and paper.

(a) 
$$\begin{array}{r} 6,132 \\ \times \quad 6 \\ \hline \end{array}$$

(b) 
$$\begin{array}{r} 48 \\ \times 39 \\ \hline \end{array}$$

(c) 
$$7 \overline{)8,722}$$

(2) Calculate mentally.

(a)  $40 \times 20 = \underline{\hspace{2cm}}$

(b)  $30 \times 11 = \underline{\hspace{2cm}}$

(c)  $12 \times 60 = \underline{\hspace{2cm}}$

(d)  $5 \times 19 = \underline{\hspace{2cm}}$

(e)  $480 \div 8 = \underline{\hspace{2cm}}$

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## School Kitchen

A cook in the school kitchen uses 6 oz of cheese to make a pizza. The kitchen has 45 lb of cheese. How many pizzas will that make?

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## Super Hauler Truck

The pickup truck can carry  $1\frac{3}{5}$  tons. The super hauler truck can carry 300 times as much. How many tons can the super hauler truck carry?

Pickup Truck



Super Hauler Truck



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- (1) A red rectangle has length  $L = 12$  in and width  $W = 6$  in. Use the formula  $A = L \times W$  to find the area of the red rectangle.
  
- (2) A blue rectangle has length 1 ft and width  $\frac{1}{2}$  ft. Draw a picture to show that two copies of the blue rectangle make one square foot. Based on your picture, what is the area of the blue rectangle?
  
- (3) Do the red rectangle and the blue rectangle have equal areas? Tell a classmate how you decided.

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$$540,909 + 87,808 - 5,864 + 2,556 = ?$$