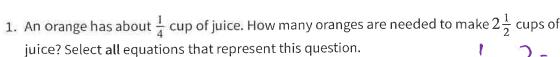


NAME

Unit 4, Lesson 16

Practice Problems



(A)
$$? \cdot \frac{1}{4} = 2\frac{1}{2}$$

B.
$$\frac{1}{4} \div 2\frac{1}{2} = ?$$

c.
$$? \cdot 2\frac{1}{2} = \frac{1}{4}$$

$$0.2\frac{1}{2} \div \frac{1}{4} = ?$$

2. Mai, Clare, and Tyler are hiking from a parking lot to the summit of a mountain. They pass a sign that gives distances.

• Parking lot: $\frac{3}{4}$ mile

• Summit: $1\frac{1}{2}$ miles $\frac{3/4}{PL}$ Sign Summit

Mai says: "We are one third of the way there." Clare says: "We have to go twice as far as we have already gone." Tyler says: "The total hike is three times as long as what we have already gone."

Can they all be correct? Explain how you know.

3. Priya's cat weighs $5\frac{1}{2}$ pounds and her dog weighs $8\frac{1}{4}$ pounds. Estimate the missing number in each statement before calculating the answer. Then, compare your answer to the estimate and explain any discrepancy. $5\frac{1}{2}$

a. The cat is $\frac{5/8}{8}$ as heavy as the dog.

b. Their combined weight is $13^{3}/4$ pounds. Added

b. Their combined weight is 1314 pounds. Additional contract and the cat. Subtract $8\frac{1}{4}$ $\frac{1}{4}$ \frac

4. Before refrigerators existed, some people had blocks of ice delivered to their homes. A delivery wagon had a storage box in the shape of a rectangular prism that was $7\frac{1}{2}$ feet NAME

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7 $\frac{1}{2}$ by 6 feet by 6 feet. The cubic ice blocks stored in the box had side lengths $1\frac{1}{2}$ feet. How many ice blocks fit in the storage box?

- A. 270
- $B_{*} 3\frac{3}{9}$
- - D. 180

- 4.4.5
- 6 feet = 4 blocks 7 1/2 feet = 5 blocks 写: 3 515 x31

5. Fill in the blanks with 0.001, 0.1, 10, or 1000 so that the value of each quotient is in the correct column. Challenge

close to $\frac{1}{100}$

•
$$\frac{1}{8} \div 0.12$$

•
$$1000 \div \frac{1}{3}$$

6. A school club sold 300 shirts. 31% were sold to fifth graders, 52% were sold to sixth graders, and the rest were sold to teachers. How many shirts were sold to each group—fifth graders, sixth graders, and teachers? Explain or show your reasoning.

6" x300 156 Teachers

or 10% = 30

- 7. Jada has some pennies and dimes. The ratio of Jada's pennies to dimes is 2 to 3.
 - a. From the information given above, can you determine how many coins Jada

No need to Know how many of I or the other or

- b. If Jada has 55 coins, how many of each 22 pennies, 33 dimes kind of coin does she have?
- c. How much are her coins worth?

22 pennies = 22 cents