

Name: COZDate: 11-16-2020

Lesson 4.2 Real-World Problems: Multiplying with Proper Fractions

Solve. Show your work.

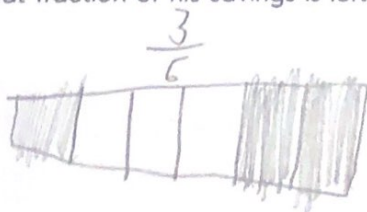
1. Tian has 56 paper clips. He gives $\frac{3}{4}$ of them to Joe. Joe gives $\frac{2}{7}$ of what he receives to Rahul. How many paper clips does Rahul get?

$$\frac{3}{4} \times \frac{56}{1} = \frac{168}{4} = 42$$

Rahul gets 12 paper clips.

$$\frac{2}{7} \times \frac{42}{1} = \frac{84}{7} = 12$$

2. Keith spends $\frac{1}{6}$ of his savings on a magazine and $\frac{2}{5}$ of the remainder on a book. What fraction of his savings is left?



$$\frac{3}{5} = \frac{1}{2}$$

the fraction of his savings left is $\frac{1}{2}$.

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Solve. Use the fraction method.

3. Zach walked his dog for $\frac{7}{8}$ hour. They spent $\frac{1}{2}$ of the time at the beach.
How much time did Zach and his dog spend at the beach?

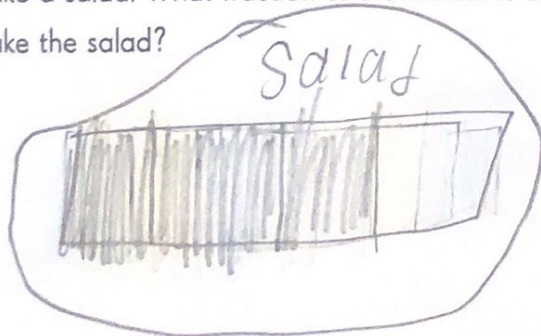
$$\frac{4}{8} \times \frac{7}{8} = \frac{7}{16}$$

$$\frac{1}{2} \times \frac{7}{8} = ?$$



Solve. Draw a bar model.

4. Mrs. Jenkins picked some tomatoes from her garden. She used $\frac{5}{9}$ of the tomatoes to make pasta sauce. Then she used $\frac{3}{4}$ of the remainder to make a salad. What fraction of the tomatoes did Mrs. Jenkins use to make the salad?



$$\frac{3}{4} = \frac{3}{4} = \frac{3}{4} = \frac{1}{3}$$

Pasta sauce



the fraction of

the tomatoes that Mrs. Jenkins used to make the salad was $\frac{1}{3}$.

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5. Lily receives 30 messages on her cell phone. Of those messages, $\frac{1}{5}$ are picture messages and $\frac{7}{8}$ of the remainder are text messages. How many text messages does she receive?

$$\frac{1}{5} \times \frac{30}{1} = \frac{6}{1}$$

She receives
21 text messages.

$$\frac{7}{8} \times \frac{6}{1} = \frac{42}{8} = \frac{21}{4} = \frac{14}{2} = 7$$

6. Sam makes some bread rolls. He gives $\frac{2}{9}$ of the bread rolls to his neighbor and $\frac{4}{9}$ of the remainder to his cousin. He has 15 bread rolls left. How many bread rolls does Sam make?



$$\frac{4}{9} + \frac{2}{9} = \frac{6}{9} = \frac{4}{3}$$

$$15 \times 3 = 45$$

Sam makes
45 bread rolls.

Solve. Use models to help you.

7. Mike has an aquarium. Of the fish in his aquarium, $\frac{2}{5}$ are clownfish.
Of the remaining fish, $\frac{1}{3}$ are damselfish.

a. What fraction of Mike's fish are damselfish?



$$\frac{1}{3} = \frac{1}{5}$$

The fraction
is one

$$\frac{1}{5}$$

b. What fraction of his fish are not clownfish or damselfish?

The fraction is $\frac{2}{5}$.

$$\frac{2}{5}$$

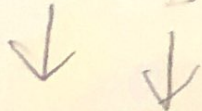
8. Roxanne has $\frac{1}{2}$ as many beads as Sherie. The number of beads Sherie has is $\frac{4}{5}$ that of Marcos. Marcos has 165 beads. How many more beads does Marcos have than Roxanne?

$$82\frac{1}{2}$$

$$\frac{165}{1} \times \frac{4}{5} = \frac{660}{5}$$

$$\frac{1}{2} = \frac{3}{5}$$

$$165 \div \frac{1}{2}$$



$$165 - 82\frac{1}{2} = 82\frac{1}{2}$$

Marcos
has $82\frac{1}{2}$

more beads
than Roxanne.