Name _____   Date _____

Products of Fractions and Mixed Numbers Word Problems - Independent Practice Worksheet

Complete all the problems and answer as a whole number.

1. Collins made orange and guava candy. She made enough orange candy to fill 5 jars. If she made 2/3 as much guava candy as orange candy, how many jars will the guava candy fill?

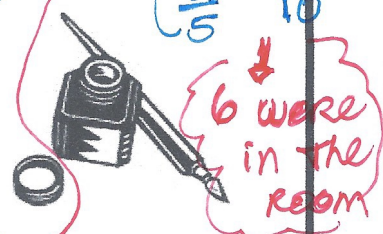$\frac{2}{3}$ of 5 jars $= \frac{2}{3} \cdot 5 = \frac{10}{3} = 3\frac{1}{3}$ jar *of guava*

that leaves 1$\frac{2}{3}$ (for a total of 5 jars) for orange

$\frac{\left(\frac{11}{5}\right)}{\frac{2}{5}} = \frac{60}{10}$

2. There were 4 people in the room. Each has 3/5 of a bottle ink left. How many markers worth of ink were there in the room?

• EACH PERSON used $\frac{2}{5}$

• On each bottle, $\frac{3}{5}$ were left $\Rightarrow \left(\frac{3}{5}\right) \cdot 4 = \frac{12}{5} = 2\frac{2}{5}$ left over

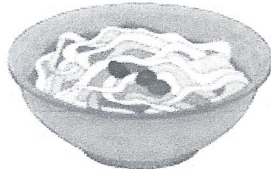• to calculate how many pens left divide what's left by what is used per pen $= 12/5 \div 2/5$

6 were in the room

3. Carol and Maggie made pasta. Maggie made enough to fill 4 plates. If Carol made 2/3 as much pasta as Maggie, how many plates will the pasta fill?

1 ———— 4 plates
2/3 ———— x

$\frac{2}{3} \cdot 4 = 8/3 = 2\frac{2}{3}$ plates

so only 2$\frac{2}{3}$ plates can be filled.

4. Anthony and Ronald went fishing in the sea. Anthony caught 5 fish and Ronald caught ¾ times as many as Anthony. How many fish did Ronald catch?   → *multiply*

• anthony = 5 fish

$5 \cdot \frac{3}{4} = \frac{15}{4} = 3\frac{3}{4}$

so Ronald caught 5 + 3$\frac{3}{4}$ ≈ almost 9 fish

5. Mary organizes a birthday party for her daughter. There were 7 children who did not get cake, so she gave 4/5 of a piece of cake to each of them. How many total pieces did she distribute?

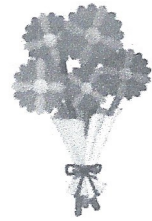$\frac{4}{5} \times 7 = \frac{28}{5} = 5\frac{3}{5}$ *Distributed*

Left: 1$\frac{2}{5}$

6. Anthony made 6 bouquets. If he used 3/4 of a bunch of flowers for each bouquet, how many flower bunches did he need?

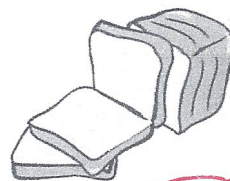• For each bouquet ⟶ 3/4 of a bunch

• to find out how much we need for 6

Multiply ⟹ $\frac{6}{1} \times \frac{3}{4} = \frac{18}{4} = 4.5$ bunches

7. George made white bread and wheat bread for the breakfast. He used 5/6 of the butter on white bread and the rest on the wheat bread. He used 7 sticks of butter in total. How many sticks of butter did he use on the white bread?

white : $\frac{5}{6}$ of 7 butter sticks
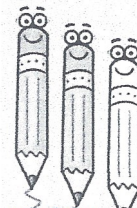
Leaves

$\frac{1}{6}$ of 7 sticks for wheat

$\frac{5}{6}$ of $7 = \frac{5}{6} \cdot \frac{7}{1} = \frac{35}{6}$

∴ He used 5.83 (almost 6) for the white

8. In school Carol completed 2/3 of a card during drawing period. She still has to make 5 cards. In how many periods will she need to complete all the cards?

• EACH period will get $\frac{2}{3}$ of 1 card

• to get $\frac{2}{3}$ of 5 cards, then,

We will need 5 blocks

BUT: each card has $\frac{1}{3}$ left to be done.
So, to finish
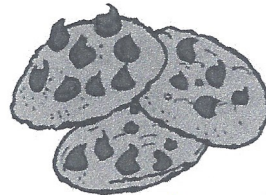$5 \times \frac{1}{3} = \frac{5}{3} = 1.66$ Blocks

2 more

TOTAL : 7 BLOCKS

9. Robinson made peanut butter cookies. He used 4/5 of a cup of peanut butter for each batch of cookies.   If he has 8 cups of peanut butter, how many batches of cookies can he make?

$\frac{4}{5}$ cup ——— 1 batch of cookies

8 cups ——— x

$x = \frac{8 \text{ cups} \times 1 \text{ batch}}{4/5 \text{ cups}}$ ⟹ $\frac{8}{1} \div \frac{4}{5} = \frac{8 \times 5}{1 \times 4} = \frac{40}{4} =$

10 Batches

10.   Jennifer cooked vegetable soup for dinner. 3/5 of a cup of vegetables are used to make a cup of soup. How many cups of vegetables will she need to make 6 cups of soup?

$\frac{3}{5}$ cup of vegetables — 1 soup

x — 6 soups

3.6 cups of vege

★ $x = 6 \frac{\text{cups}}{\text{soup}} \cdot \frac{3}{5} \text{ cup of vegetable}/1\text{ cup of sop} = 6 \cdot \frac{3}{5} = \frac{18}{5}$