

Chapter 4 Quiz Practice

Find each product. Write your answer in simplest form. Show your work.

1. $\frac{1}{5} \times 21 = 21 \frac{1}{5} \text{ or } 4 \frac{1}{5}$

2. $\frac{3}{4} \times 1 \frac{2}{7} = \frac{3}{4} \times \frac{9}{7} = \frac{27}{28}$

3. $3 \frac{5}{6} \times 1 \frac{3}{4} = \frac{23}{6} \times \frac{7}{4} = \frac{161}{24} = 6 \frac{17}{24}$

4. $2 \frac{6}{7} \times 3 \frac{1}{4} = \frac{20}{7} \times \frac{13}{4} = \frac{260}{28} = 9 \frac{8}{28} = 9 \frac{2}{7}$

5. $\frac{2}{1} \times \frac{3}{4} = \frac{6}{4} = \frac{3}{2} = 1 \frac{1}{2}$

6. $\frac{3}{4} \times 8 = \frac{6}{1} = 6$

7. There are 21 muffins in a bakery. If $\frac{6}{7}$ of the muffins are blueberry, how many muffins are blueberry?

$21 \times \frac{6}{7} = 18$

8. A model of the ocean floor takes up $\frac{3}{7}$ of the space in an aquarium. If $\frac{5}{12}$ of the model is coral, what fraction of the space in the aquarium is taken up by coral?

$\frac{3}{7} \times \frac{5}{12} = \frac{5}{28}$

9. Use the table for this exercise.

The table shows Keith's food options for a 7-day outdoor survival course.

Food Options for 7-Day Outdoor Survival Course	
Peanut butter	1 plastic jar = $4\frac{3}{5}$ cups
Dried noodles/rice	$14\frac{2}{3}$ cups
Dried fruit/nuts	$6\frac{1}{6}$ cups
Concentrated juice boxes	8 boxes = $16\frac{1}{4}$ cups
Beef jerky	$3\frac{1}{3}$ cups
Powdered milk	1 box = $8\frac{4}{5}$ cups
Dehydrated soup	5 packages = $15\frac{2}{3}$ cups
Canned tuna/meat	4 cans = $5\frac{3}{5}$ cups

- a. Keith plans on eating $1\frac{1}{4}$ cups of powdered milk per day for four days. How much powdered milk does he need? Is 1 box enough? Explain your answer.

$\frac{5 \text{ cups}}{4} \times 4 = 5 \text{ cups}$

1 box = $8\frac{4}{5}$ cups

5 cups @ $8\frac{4}{5}$ cups Yes!

1 box of powder milk is enough for survival!

- b. Keith would like to bring enough dehydrated soup in order to have $1\frac{1}{5}$ cups available per day. How much juice does he need and is 5 packages of dehydrated soup enough?

$$1\frac{1}{5} = \frac{6}{5} \times 7 = \frac{42}{5} = 8\frac{2}{5} \text{ cups} < 15\frac{2}{3} \text{ cups}$$

5 packages of dehydrated soup is enough.