

Grade 5 NF.6: Solve real world problems involving multiplication of fractions and mixed numbers, e.g., by using visual fraction models or equations to represent the problem.

- 1. It takes 2 ½ cans of paint to paint one part of the fence. How many cans would it take to paint all 9 parts of the fence?
 - a) 18
 - b) 14
 - c) $22^{1}/_{9}$
 - d) $22^{1}/_{2}$
- 2. Brian has $1^3/_4$ pounds of vegetables. If $1/_5$ of them are carrots, how many pounds of carrots does he have?
 - a) $\frac{8}{9}$
 - b) $^{3}/_{20}$
 - c) $^{7}/_{20}$
 - d) $^{4}/_{9}$
- 3. $\frac{3}{5}$ of Bob's magazines are sports related $\frac{1}{2}$ of his sports magazines are all about soccer. What fraction of Bob's magazines are soccer?
 - a) $^{4}/_{7}$
 - b) $^{3}/_{10}$
 - c) $^{3}/_{7}$
 - d) $^{2}/_{3}$
- 4. $\frac{4}{9}$ of the students in a classroom are girls. $\frac{2}{3}$ of the girls have brown hair. What fraction of the students are brown haired girls?
 - a) $^{8}/_{27}$
 - b) $^{6}/_{27}$

c) d)	6/ ₁₂ 2/ ₆

- 5. Michael purchased $3^{3}/_{5}$ pounds of trail mix. If $^{1}/_{4}$ of the trail mix had pistachios in it, how many pounds of pistachio trail mix did he buy?
 - a) $^{9}/_{10}$
 - b) $^{3}/_{9}$
 - c) $^{9}/_{20}$
 - d) $^{18}/_{21}$

Show your work in visual fraction models or equations for problems 6, 7, & 8.

6. A piece of land is $\frac{3}{4}$ kilometer wide. Its length is $5\frac{1}{3}$ times as long as it is wide. How long is the piece of land?

7. 2½ crates of apples are delivered to the greengrocers on Monday morning. 2/5 of the apples in each crate are green apples. How many crates would it take to deliver only the green apples?

8. Last week, Jake spent 6¼ hours reading. Lia spent 3/5 as many hours as Jake reading. How many hours did Lia spend reading?