

Application_Grade-5_Fractions

Multiplication of Fractions by Fractions

1. **Find the missing fraction. Then check by multiplying.**

16. $\frac{3}{4} \times n = \frac{5}{6} \times \frac{3}{4}$ 17. $\frac{6}{7} \times \frac{1}{4} = n \times \frac{6}{7}$ 18. $n \times \frac{2}{9} = \frac{2}{9} \times \frac{4}{5}$

2. It took Peter $\frac{3}{4}$ of the morning to do yard work. He spent $\frac{2}{3}$ of this time pulling weeds. What part of the morning did he pull weeds?

3. **Draw a diagram to illustrate each product. Then write a multiplication sentence. Explain your diagram.**

17. $\frac{3}{4} \times \frac{1}{5}$ 18. $\frac{5}{8} \times \frac{1}{3}$ 19. $\frac{3}{7} \times \frac{5}{6}$ 20. $\frac{8}{10} \times \frac{1}{2}$ 21. $\frac{7}{8} \times \frac{3}{4}$

4. Of the students in the sophomore class, $\frac{2}{5}$ have cameras; $\frac{1}{4}$ of the students with cameras join the photography club. What fraction of the students in the sophomore class does not join the photography club?
5. In water, sound travels approximately $\frac{9}{10}$ of a mile per second. How far does sound travel in $\frac{1}{3}$ second?
6. Ebony lifts weights $\frac{3}{4}$ hour a day 5 days a week. Adam lifts weights $\frac{1}{2}$ as long 2 days a week and twice as long 3 days a week. How many hours does Adam lift weights each week?
7. Half of Ms. Silver's class participates in after school sports. One third of those students play volleyball. What fraction of Ms. Silver's class does *not* play volleyball in after school sports?