Math 6 – Unit 1: **Number System Fluency**

Multiplying and Dividing Fractions Practice

Solve the following multiplication problems (always simplify your answers):

1) $\frac{2}{3} \cdot \frac{3}{4} =$

2) $4 \cdot \frac{7}{8} =$

3) $2\frac{1}{2} \cdot 3\frac{1}{3} =$

Solve the following division problems (always simplify your answers):

4) $5 \div \frac{2}{3} =$

5) $\frac{4}{5} \div 5 =$

6) $\frac{4}{7} \div \frac{3}{8} =$

7) $\frac{5}{12} \div \frac{3}{4} =$

8) $4\frac{2}{3} \div 3\frac{1}{2} =$

9) $\frac{7}{8} \div 2 =$

---

10) Alice and Samantha watered $\frac{5}{6}$ of the yard together. Samantha watered $\frac{1}{3}$ of that amount. What part of the yard did Samantha water?

11) A bag holding $7\frac{1}{5}$ pounds of mixed nuts will be divided equally among 9 people. How many pounds of nuts will each person get?

12) It takes a baseball team 2 hours to complete a game. How long will it take to complete $\frac{2}{3}$ of a game?

13) Felipe studied for $3\frac{3}{4}$ hours this week. If he studied the same amount of time each day for 5 days, how long did he study each day?

Solve the following multiplication problems (always simplify your answers):

1) $\frac{2}{3} \cdot \frac{3}{4} = \frac{1}{2}$

2) $4 \cdot \frac{7}{8} = \frac{7}{2} = 3\frac{1}{2}$

3) $2\frac{1}{2} \cdot 3\frac{1}{3} = \frac{50}{6} = \frac{25}{3} = 8\frac{1}{3}$

Solve the following division problems (always simplify your answers):

4) $5 \div \frac{2}{3} = \frac{15}{2} = 7\frac{1}{2}$

5) $\frac{4}{5} \div 5 = \frac{4}{25}$

6) $\frac{4}{7} \div \frac{3}{8} = \frac{32}{21} = 1\frac{11}{21}$

7) $\frac{5}{12} \div \frac{3}{4} = \frac{5}{9}$

8) $4\frac{2}{3} \div 3\frac{1}{2} = \frac{4}{3} = 1\frac{1}{3}$

9) $\frac{7}{8} \div 2 = \frac{7}{16}$

---

10) Alice and Samantha watered $\frac{5}{6}$ of the yard together. Samantha watered $\frac{1}{3}$ of that amount. What part of the yard did Samantha water?

$\frac{5}{18}$ of the yard

11) A bag holding $7\frac{1}{5}$ pounds of mixed nuts will be divided equally among 9 people. How many pounds of nuts will each person get?

$\frac{4}{5}$ of a pound

12) It takes a baseball team 2 hours to complete a game. How long will it take to complete $\frac{2}{3}$ of a game?

$\frac{4}{3}$ of an hour or 1 hour and 20 minutes

13) Felipe studied for $3\frac{3}{4}$ hours this week. If he studied the same amount of time each day for 5 days, how long did he study each day?

$\frac{3}{4}$ of an hour or 45 minutes