**Study Guide Answer Key**

1. $ \frac{2}{3}$ x $\frac{3}{5}$ = $\frac{2}{5}$
2. $ \frac{4}{9}$ x$\frac{1}{5}$ = $\frac{4}{45}$

3)Change the mixed number to an improper fraction:

$4\frac{3}{5}$ = $\frac{23}{5}$

4) Multiply

 $\frac{5}{7}$ x 2$\frac{2}{5}$ = $\frac{5}{7}$ x $\frac{12}{5}$ = $\frac{12}{7}$ = 1$\frac{5}{7}$

5) $\frac{3}{10}$ ÷$\frac{ 3}{9}$ = $\frac{3}{10}$ x$\frac{9}{3}$ = $\frac{9}{10}$

6) 2 ÷$\frac{1}{4}$ = $\frac{2}{1}$ x $\frac{4}{1}$ = 8

7) Find the reciprocal of 3$\frac{1}{6}$ .

3 x 6 +1 = 19

 6 6 = $\frac{6}{19}$

8) Find the product:

 4 x $\frac{3}{8}$ = $\frac{4}{1}$ x $\frac{3}{8}$ = $\frac{3}{2}$ = 1$\frac{1}{2}$

9) 6 ÷$\frac{2}{5}$ = $\frac{6}{1}$ x $\frac{5}{2}$ = $\frac{15}{1}$ = 15

10) $\frac{3}{6}$ ÷ 2 = $\frac{3}{6}$ x $\frac{1}{2}$ = $\frac{3}{12}$ = $\frac{1}{4}$

11) 2$\frac{1}{3}$ x 1$\frac{1}{7}$ = $\frac{7}{3}$ x $\frac{8}{7}$ = $\frac{8}{3}$ = 2$\frac{2}{3}$

12) Estimate:

 3 $\frac{3}{10 }$ x 4$\frac{2}{3}$ = 3 x 5 = 15

13) An apple cake recipe calls for 2$\frac{2}{3}$ cups of apple slices. Each apple supplies about $\frac{2}{3}$ cups of apples. How many apples are needed to make the cake?

2$\frac{2}{3 }÷ \frac{2}{3}$ = $\frac{8}{3}$ $÷ \frac{2}{3 }$ = $\frac{8}{3}$ x $\frac{3}{2}$ = 4

14) Lisa uses 4$\frac{1}{2}$ cups of flour to bake a cake. Sue uses 1 $\frac{2}{3}$ times as much flour to bake rolls. How much does Sue use?

4$\frac{1}{2}$ x 1$\frac{2}{3 }$ = $\frac{9}{2}$ x $\frac{5}{3}$ = $\frac{15}{2}$ = 7$\frac{1}{2}$

15) Jeric cuts a $\frac{1}{2}$ ft piece of wood into $\frac{1}{8}$ ft strips. How many strips did he make?

$\frac{1}{2}$ $÷$ $\frac{1}{8}$ = $\frac{1}{2}$ x $\frac{8}{1}$ = $\frac{8}{2}$ = 4

16) Ruth had $\frac{3}{4}$ of a pie left. She ate $\frac{2}{3}$ of it. How much of the pie did she eat?

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$\frac{3}{4 }$ x $\frac{2}{3}$ = $\frac{1}{2}$