6th Grade FM Math Name: Key

Homework – Skills Review/Complex Fractions Date: _____ Pd: ____

Show all work and answer in a complete sentence.

1. Aaron scored 12/15 on his quiz. What was his grade?

$\frac{12}{15} \div \frac{3}{3} \rightarrow \frac{4 \cdot 20}{5 \cdot 20} = \frac{80}{100}$ **80%**

2. Janesca had test scores of 75%, 81%, 69%, and 95%. What is her current average?

$\frac{75+81+69+95}{4} : \frac{320}{4}$ **80%**

Show all work and circle your answer.

3. $3\frac{3}{4}+2\frac{5}{6}$

$3\frac{9}{12}+2\frac{10}{12}$

$5\frac{19}{12} \rightarrow$ **$6\frac{7}{12}$**

4. $5\frac{1}{2}-1\frac{2}{3}$

$4\frac{8\frac{3}{6}}{6}-1\frac{4}{6}$

$3\frac{5}{6}$

5. $78.3+2.58$

78.3
+2.58
80.88

6. $48-.39$

7 9
48.00
− .39
47.61

47.61

7. $2\frac{1}{3}\times 4\frac{1}{5}$

$\frac{7}{3_1} \cdot \frac{21^7}{5}$

$\frac{49}{5}$ **$9\frac{4}{5}$**

8. $4 \div \frac{2}{5}$

$\frac{24}{1} \cdot \frac{5}{2_1}$

10

9. 1.25×4.5

1.25 (2)
× 4.5 (1)
625
+5000
5.625 (3)

5.625

10. $2.25 \div 1.8$

1.25

1.8 | 2.35
×10 ×10

1.25
18 | 22.50
−18
45
−36
90
−90

11. $\dfrac{\frac{4}{9}+2\frac{3}{4}}{5}$

$\dfrac{\frac{16}{36}+2\frac{27}{36}}{5}$

$\dfrac{2\frac{43}{36}}{5}$

$\frac{115}{36} \div 5$

$\frac{115}{36} \cdot \frac{1}{\cancel{5}_{1}} \rightarrow \boxed{\frac{23}{36}}$

12. $5-\left(\dfrac{3\frac{6}{7}}{5}\right)$

$5-\left(\frac{27}{7} \div 5\right)$

$5-\left(\frac{27}{7} \cdot \frac{1}{5}\right)$

$5-\frac{27}{35}$

$4\frac{35}{35}-\frac{27}{35}$

$\boxed{4\frac{8}{35}}$

13. $\dfrac{4}{\frac{3}{4}+1\frac{1}{2}}$

$\dfrac{4}{\frac{3}{4}+1\frac{2}{4}}$

$\dfrac{4}{1\frac{5}{4}}$

$4 \div 1\frac{5}{4}$

$4 \div \frac{9}{4}$

$\frac{4}{1} \cdot \frac{4}{9} \rightarrow \frac{16}{9}$

$\boxed{1\frac{7}{9}}$

14. $\dfrac{\frac{4}{5}}{\frac{2}{25}+\frac{5}{16}}$

$\dfrac{\frac{4}{5}}{\frac{32}{400}+\frac{125}{400}}$

$\dfrac{\frac{4}{5}}{\frac{157}{400}}$

$\frac{4}{5} \div \frac{157}{400}$

$\frac{4}{\cancel{5}_{1}} \cdot \frac{\cancel{400}^{80}}{157} \rightarrow \frac{320}{157}$

$\boxed{2\frac{6}{157}}$

15. $16+\dfrac{2\frac{1}{3}}{1\frac{1}{2}}$

$16+\left(2\frac{1}{3} \div 1\frac{1}{2}\right)$

$16+\left(\frac{7}{3} \div \frac{3}{2}\right)$

$16+\left(\frac{7}{3} \cdot \frac{2}{3}\right)$

$16+\frac{14}{9}$

$16\frac{14}{9}$

$\boxed{17\frac{5}{9}}$

16. $\dfrac{10\frac{3}{5}-1\frac{5}{6}}{3}$

$\dfrac{\cancel{10}^{9}\frac{\cancel{18}^{48}}{30}-1\frac{25}{30}}{3}$

$8\frac{23}{30} \div 3$

$\frac{263}{30} \cdot \frac{1}{3}$

$\frac{263}{90}$

$\boxed{2\frac{83}{90}}$