

6th Grade Honors Math
 Practice Operations
 +/- Fractions/Decimals or x/÷ Fractions
 Show all work and circle your answer.

Name: Key
 Date: _____ Pd: _____

1. $4\frac{2}{3} + 1\frac{3}{7}$
 $4\frac{14}{21} + 1\frac{9}{21}$
 $5\frac{23}{21}$
 $6\frac{2}{11}$

2. $4\frac{2}{5} - 2\frac{3}{4}$
 $3\frac{4}{5} - 2\frac{15}{20}$
 $1\frac{13}{20}$

3. $42 + 0.36 + 29.2$
 $\begin{array}{r} 42.00 \\ + .36 \\ 29.2 \\ \hline \end{array}$
 71.56

4. $75 - 3.6$
 $\begin{array}{r} 75.0 \\ - 3.6 \\ \hline \end{array}$
 71.4

5. $4\frac{1}{3} + 1\frac{7}{8}$
 $4\frac{8}{24} + 1\frac{21}{24}$
 $5\frac{29}{24}$
 $6\frac{5}{24}$

6. $3\frac{1}{2} - 1\frac{3}{4}$
 $2\frac{2}{4} - 1\frac{3}{4}$
 $1\frac{3}{4}$

7. $42.1 + .83$
 $\begin{array}{r} 42.10 \\ + .83 \\ \hline \end{array}$
 42.93

8. $61 - .58$
 $\begin{array}{r} 61.00 \\ - .58 \\ \hline \end{array}$
 60.42

9. $8\frac{5}{8} + 2\frac{2}{3}$

$$8\frac{15}{24} + 2\frac{16}{24}$$

$$10\frac{31}{24}$$

$$\boxed{11\frac{7}{24}}$$

10. $6\frac{2}{9} - 3\frac{5}{6}$

$$5\cancel{6}\frac{4^{22}}{18} - 3\frac{15}{18}$$

$$\boxed{2\frac{7}{18}}$$

11. $6.3 + 0.45 + 79.62$

$$6.30$$

$$.45$$

$$+79.62$$

$$\boxed{86.37}$$

12. $23 - 1.8$

$$\begin{array}{r} 23.0 \\ - 1.8 \\ \hline \end{array}$$

$$\boxed{21.2}$$

13. $3\frac{7}{9} \times \frac{3}{4}$

$$\begin{array}{r} 17 \\ \cancel{3}1 \cdot \cancel{3}1 \\ \hline 93 \times 2 \end{array}$$

$$\frac{17}{6}$$

$$\boxed{2\frac{5}{6}}$$

14. $4\frac{1}{2} \div 3\frac{1}{3}$

$$\frac{9}{2} \div \frac{10}{3}$$

$$\frac{9}{2} \cdot \frac{3}{10}$$

$$\frac{27}{20}$$

$$\boxed{1\frac{7}{20}}$$

15. $2\frac{1}{2} \times 1\frac{1}{7}$

$$\frac{5}{2} \cdot \frac{8^4}{7}$$

$$\frac{20}{7}$$

$$\boxed{2\frac{6}{7}}$$

16. $1\frac{3}{5} \div \frac{1}{2}$

$$\frac{8}{5} \cdot \frac{2}{1}$$

$$\frac{16}{5}$$

$$\boxed{3\frac{1}{5}}$$

17. $\frac{14(27)}{72(91)}$
 $\frac{84}{13}$

$$\boxed{\frac{3}{52}}$$

18. $\frac{4}{5} \div 2\frac{1}{2}$

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

$$\frac{4}{5} \cdot \frac{2}{5}$$

$$\boxed{\frac{8}{25}}$$

19. $2\frac{2}{3} + \frac{3}{4}$

$$2\frac{8}{12} + \frac{9}{12}$$

$$2\frac{17}{12}$$

$$\boxed{3\frac{5}{12}}$$

20. $5\frac{5}{8} - 2\frac{5}{6}$

$$4\frac{15}{24} - 2\frac{20}{24}$$

$$\boxed{2\frac{19}{24}}$$

21. Order the following decimals from least to greatest. Show or explain your reasoning.

0.067

0.76

0.06

0.4

0.87

0.06, 0.067, 0.4, 0.76, 0.87

22. Jackson says that $\frac{4}{5}$ of a pizza is the same as what he has, 0.6 of a pizza. Susan disagrees with Jackson's thinking. Susan thinks that $\frac{4}{5}$ is more than 0.6 of a pizza. Who is thinking correctly? Make sure you mathematically prove your reasoning.

Jackson (same?)

$$\frac{4}{5} \quad .6$$

$$\frac{4}{5} \quad \frac{6}{10}$$

$$\frac{8}{10} > \frac{6}{10}$$

Susan is correct because
 $.6$ is $\frac{6}{10}$ and $\frac{4}{5}$ is $\frac{8}{10}$.

$\frac{4}{5}$ is more than $.6$.

23. $16 + 14 \div 2 - 7$

$$16 + 7 - 7$$

$$23 - 7$$

$$\boxed{16}$$

24. $64 \div 2^3 + 4$

$$64 \div 8 + 4$$

$$8 + 4$$

$$\boxed{12}$$

25. $(9 - 4)^2 - 12 \times 2$

$$5^2 - 12 \times 2$$

$$25 - 24$$

$$\boxed{1}$$

26. $[1 + (2 + 5)^2] \times 2$

$$[1 + 7^2] \times 2$$

$$[1 + 49] \times 2$$

$$50(2)$$

$$\boxed{100}$$