Year 6 Maths Homework – Fractions

Name: _____ Date: _____

Time: approximately 30 minutes | Show your working and simplify where possible.

1. Equivalent Fractions (5 minutes)

Remember: multiply or divide the numerator and denominator by the same number.

Worked example: $\frac{2}{3} = \frac{4}{6}$

1. $\frac{1}{2}$ = _____ / 10

2. $\frac{3}{4}$ = _____ / 20

3. $\frac{2}{5}$ = 8 / _____

4. $\frac{6}{8}$ = _____ / 4

5. Write two fractions equivalent to $\frac{3}{5}$: a) _____ b) _____

2. Comparing Fractions (5 minutes)

Remember: find a common denominator before comparing.

Worked example: $\frac{2}{3} = \frac{8}{12}$ $\frac{3}{4} = \frac{9}{12}$

So, $\frac{3}{4} > \frac{2}{3}$

6. $\frac{1}{2}$ _____ $\frac{3}{8}$

7. $\frac{2}{3}$ _____ $\frac{3}{5}$

8. $\frac{3}{4}$ _____ $\frac{6}{8}$

9. $\frac{5}{6}$ _____ $\frac{7}{9}$

3. Adding and Subtracting Simple Fractions (5 minutes)

Remember: when denominators are the same, add or subtract the numerators and keep the denominator.

Worked example: $\frac{2}{7} + \frac{3}{7} = \frac{5}{7}$

10. $\frac{2}{9} + \frac{4}{9}$ = _____

11. $\frac{7}{10} - \frac{3}{10}$ = _____

12. $\frac{3}{8} + \frac{2}{8}$ = _____

13. $\frac{11}{12} - \frac{5}{12}$ = _____

4. Adding and Subtracting Any Fractions (10 minutes)

Remember: find a common denominator, make equivalent fractions, then calculate.

Worked example: $\frac{1}{2} + \frac{1}{4} = \frac{2}{4} + \frac{1}{4} = \frac{3}{4}$

14. $\frac{1}{2} + \frac{1}{3}$ = _____

15. $\frac{3}{4} - \frac{1}{2}$ = _____

16. $\frac{2}{3} + \frac{1}{5}$ = _____

17. $\frac{5}{6} - \frac{1}{4}$ = _____

18. $1\frac{1}{2} + \frac{1}{4}$ = _____

5. Challenge Question (5 minutes)

A cake is cut into equal slices. Tom eats $\frac{1}{4}$, Sarah eats $\frac{1}{3}$, and Jack eats $\frac{1}{6}$.

a) What fraction of the cake has been eaten altogether?

Working / explanation: _____

b) What fraction of the cake is left?

Working / explanation: _____

c) Explain how you worked out your answer.

Working / explanation: _____

Well done! Check your calculations and simplify your answers.

In addition to this homework, we'd like you to get into the habit of spending 10 minutes every day on practicing your times tables and division facts by logging into Times Tables Rockstars.

We will be checking and rewarding those of you who practice regularly!

Mrs Ellis and Mr Martindale