

Year 6 Maths Homework

Due in Friday 30th November 2018

Adding fractions – add the following fraction pairs by converting them so they have the same denominator, and then adding the numerators whilst keeping the denominator the same. Remember to convert any improper fraction answers back into mixed numbers.

e.g. $\frac{2}{4} + \frac{5}{8} = \frac{4}{8} + \frac{5}{8} = \frac{9}{8} = 1\frac{1}{8}$

1. $\frac{3}{5} + \frac{2}{15} =$

2. $\frac{9}{12} + \frac{2}{3} =$

3. $\frac{3}{4} + \frac{1}{5} =$

4. $\frac{6}{7} + \frac{1}{6} =$

5. $2\frac{1}{5} + 1\frac{2}{9} =$

Subtracting fractions – subtract the following fraction pairs by converting them so they have the same denominator, and then subtracting the numerators whilst keeping the denominator the same. Remember to convert any improper fraction answers back into mixed numbers, and to make any mixed numbers in the question into improper fractions first.

e.g. $1\frac{2}{4} - \frac{5}{8} = \frac{6}{4} - \frac{5}{8} = \frac{12}{8} - \frac{5}{8} = \frac{7}{8}$

1. $\frac{4}{5} - \frac{4}{15} =$

2. $\frac{5}{6} - \frac{1}{3} =$

3. $1\frac{5}{8} - \frac{3}{4} =$

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

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

Multiplying fractions – multiply the following fraction pairs by multiplying the numerators together and the denominators together. Simplify the answers if you can. Remember to convert any mixed numbers in the question into improper fractions first, and try to convert any improper fraction answers back to mixed numbers.

e.g. $1\frac{2}{4} \times \frac{5}{8} = \frac{6}{4} \times \frac{5}{8} = \frac{30}{32} = \frac{15}{16}$

1. $\frac{1}{6} \times \frac{1}{4} =$

2. $\frac{2}{3} \times \frac{2}{9} =$

3. $\frac{5}{7} \times \frac{3}{10} =$

4. $2\frac{2}{5} \times \frac{3}{8} =$

5. $4\frac{7}{8} \times 2\frac{5}{9} =$

Dividing fractions – divide the following fraction pairs by following ‘Leave Me, Change Me, Turn Me Over’: leave the first fraction as it is, change the division sign into multiplication, and flip the second fraction on its head, before completing it as a multiplication sum. Simplify the answers if you can. Remember to convert any mixed numbers in the question into improper fractions first, and try to convert any improper fraction answers back to mixed numbers.

e.g. $1\frac{2}{4} \div \frac{5}{8} = \frac{6}{4} \div \frac{5}{8} = \frac{6}{4} \times \frac{8}{5} = \frac{48}{20}$
 $= 2\frac{8}{20} = 2\frac{2}{5}$ (pewh!)

1. $\frac{1}{3} \div \frac{2}{3} =$

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

3. $\frac{3}{5} \div \frac{1}{9} =$

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

5. $4\frac{1}{6} \div 2\frac{3}{8} =$