

# MIXED NUMBER OPERATIONS

**Task 1 – Work out the following calculations. Give your answers as fully simplified mixed numbers.**

$$1) 2\frac{1}{4} + 3\frac{2}{3} = 5\frac{11}{12}$$

$$2) 1\frac{3}{5} + 2\frac{4}{5} = 4\frac{2}{5}$$

$$3) 5\frac{1}{2} + 1\frac{1}{4} = 6\frac{3}{4}$$

$$4) 3\frac{2}{7} + 4\frac{5}{7} = 8$$

$$5) 6\frac{3}{8} + 2\frac{1}{2} = 8\frac{7}{8}$$

$$6) 7\frac{1}{6} + 3\frac{5}{6} = 11$$

$$7) 1\frac{1}{2} + 4\frac{2}{3} = 6\frac{1}{6}$$

$$8) 2\frac{3}{4} + 3\frac{1}{8} = 5\frac{7}{8}$$

$$9) 9\frac{2}{5} + 1\frac{3}{10} = 10\frac{7}{10}$$

$$10) 5\frac{1}{3} + 2\frac{5}{6} = 8\frac{1}{6}$$

**Task 2 – Work out the following calculations. Give your answers as fully simplified mixed numbers.**

$$11) 6\frac{1}{2} - 2\frac{2}{3} = 3\frac{5}{6}$$

$$12) 4\frac{3}{4} - 1\frac{1}{2} = 3\frac{1}{4}$$

$$13) 8\frac{5}{6} - 3\frac{2}{3} = 5\frac{1}{6}$$

$$14) 10 - 4\frac{3}{5} = 5\frac{2}{5}$$

$$15) 7\frac{1}{3} - 2\frac{5}{6} = 4\frac{1}{2}$$

$$16) 5\frac{3}{8} - 1\frac{7}{8} = 3\frac{1}{2}$$

$$17) 6 - 2\frac{2}{3} = 3\frac{1}{3}$$

$$18) 9\frac{2}{5} - 3\frac{4}{5} = 5\frac{3}{5}$$

$$19) 7\frac{1}{4} - 5\frac{3}{4} = 1\frac{1}{2}$$

$$20) 4\frac{2}{3} - 1\frac{5}{6} = 2\frac{5}{6}$$

**Task 3 – Work out the following calculations. Give your answers as fully simplified mixed numbers.**

$$21) 1\frac{1}{2} \times 2 = 3$$

$$22) 2\frac{2}{3} \times 1\frac{1}{2} = 4$$

$$23) 3\frac{1}{4} \times 2\frac{2}{5} = 7\frac{4}{5}$$

$$24) 5 \times 1\frac{1}{4} = 6\frac{1}{4}$$

$$25) 2\frac{1}{3} \times 3\frac{1}{2} = 8\frac{1}{6}$$

$$26) 4\frac{1}{5} \times 2\frac{2}{3} = 11\frac{1}{5}$$

$$27) 3 \times 1\frac{2}{5} = 4\frac{1}{5}$$

$$28) 2\frac{1}{2} \times 2\frac{1}{2} = 6\frac{1}{4}$$

$$29) 6\frac{1}{3} \times 1\frac{1}{2} = 9\frac{1}{2}$$

$$30) 3\frac{3}{5} \times 2 = 7\frac{1}{5}$$

**Task 4 – Work out the following calculations. Give your answers as fully simplified mixed numbers.**

$$31) 4\frac{1}{2} \div 1\frac{1}{2} = 3$$

$$32) 5\frac{1}{4} \div 2 = 2\frac{5}{8}$$

$$33) 6 \div 1\frac{1}{2} = 4$$

$$34) 3\frac{3}{8} \div 1\frac{4}{5} = 1\frac{7}{8}$$

$$35) 7\frac{1}{4} \div 2\frac{1}{2} = 2\frac{9}{10}$$

$$36) 9 \div 1\frac{1}{2} = 6$$

$$37) 4\frac{2}{3} \div 2\frac{1}{3} = 2$$

$$38) 6\frac{3}{4} \div 1\frac{1}{2} = 4\frac{1}{2}$$

$$39) 8\frac{1}{4} \div 2\frac{3}{5} = 3\frac{9}{52}$$

$$40) 10\frac{1}{3} \div 3\frac{1}{2} = 2\frac{20}{21}$$

Task 5 – Work out the following questions. Give your answers as fully simplified mixed numbers.

- 41) Ella baked  $3\frac{1}{2}$  dozen cupcakes on Monday and  $2\frac{2}{3}$  dozen on Tuesday. How many dozen did she bake in total?

$$3\frac{1}{2} + 2\frac{2}{3} = 6\frac{1}{6} \text{ dozen}$$

- 42) A recipe needs  $1\frac{1}{4}$  cups of sugar. If you want to make 3 batches, how much sugar is needed?

$$1\frac{1}{4} \times 3 = 3\frac{3}{4} \text{ cups}$$

- 43) You have  $7\frac{1}{2}$  litres of paint and use  $1\frac{2}{3}$  litres per room. How many rooms can you paint?

$$7\frac{1}{2} \div 1\frac{2}{3} = 4\frac{1}{2}$$

4 rooms

- 44) A rope is  $12\frac{1}{2}$  metres long. If it is cut into  $3\frac{1}{8}$  metre pieces, how many full pieces can be cut?

$$12\frac{1}{2} \div 3\frac{1}{8} = 4 \text{ full pieces}$$

- 45) Liam walked  $4\frac{2}{5}$  miles in the morning and  $2\frac{3}{10}$  miles in the evening. How much farther did he walk in the morning?

$$4\frac{2}{5} - 2\frac{3}{10} = 2\frac{1}{10} \text{ miles}$$