Adding fractions

Please complete the following questions. If the answer is an improper fraction, convert it to a whole or mixed number.

1) $\dfrac{5}{8} + \dfrac{1}{8} = \dfrac{}{8}$

2) $\dfrac{4}{10} + \dfrac{4}{10} = \dfrac{}{10}$

3) $\dfrac{3}{7} + \dfrac{2}{7} = \dfrac{}{7}$

4) $\dfrac{4}{3} + \dfrac{1}{3} = \dfrac{}{3}$

Fill in the missing numbers in the calculations below.

a) $\dfrac{5}{8} + \dfrac{\square}{8} = \dfrac{11}{8}$

b) $\dfrac{7}{9} + \dfrac{\square}{9} = \dfrac{15}{9} = 1\dfrac{6}{9}$

Please complete the following calculations which have different denominators. Remember to show your working out. The first one has been done for you.

$\dfrac{1}{8} + \dfrac{1}{2} = \boxed{}$

$\dfrac{2}{7} + \dfrac{5}{14} = \boxed{}$

$\dfrac{1}{4} + \dfrac{5}{8} = \boxed{}$

$\dfrac{3}{8} + \dfrac{1}{16} = \boxed{}$

$\dfrac{1}{2} + \dfrac{3}{8} = \boxed{}$

$\dfrac{5}{16} + \dfrac{5}{8} = \boxed{}$

$\dfrac{5}{6} + \dfrac{1}{12} = \boxed{}$

$\dfrac{2}{9} + \dfrac{5}{18} = \boxed{}$

Improper Fractions and Mixed Numbers

PS Problem-solving questions

Challenge 1

1 $1\frac{3}{4}$ is a mixed number.

What mixed numbers do these represent?

a) ⬜ _____   b) ⬜ _____   c) ⬜ _____

2 Put a tick (✓) beside the fractions greater than 1 and a cross (✗) beside the fractions less than 1.

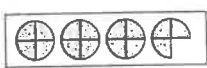$\frac{4}{5}$ ☐ $\frac{7}{6}$ ☐ $1\frac{1}{2}$ ☐ $\frac{2}{3}$ ☐ $\frac{5}{4}$ ☐

3 marks

5 marks

Marks.........../8

Challenge 2

1 What improper fractions do these represent?

a) ⬜ _____   b) ⬜ _____   c) ⬜ _____

3 marks

2 Convert these improper fractions to mixed numbers.

a) $\frac{11}{6}$ _____   b) $\frac{14}{3}$ _____   c) $\frac{15}{4}$ _____

3 marks

Marks.........../6

Challenge 3

1 Give your answers as mixed numbers.

a) $\frac{9}{5} + \frac{2}{5} =$ _____   b) $\frac{7}{8} + \frac{7}{8} =$ _____   c) $\frac{4}{5} + \frac{6}{5} + \frac{3}{5} =$ _____

3 marks

2 Use >, < or = to make these statements correct.

a) $\frac{15}{6}$ ☐ $\frac{5}{2}$ b) $1\frac{4}{5}$ ☐ $\frac{11}{5}$

2 marks

Marks.........../5

Total marks ..../19   How am I doing? 😊 😐 😣

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ANSWERS

Adding fractions

Please complete the following questions. If the answer is an improper fraction, convert it to a whole or mixed number.

1) $\dfrac{5}{8} + \dfrac{1}{8} = \dfrac{6}{8}$

2) $\dfrac{4}{10} + \dfrac{4}{10} = \dfrac{8}{10}$

3) $\dfrac{3}{7} + \dfrac{2}{7} = \dfrac{5}{7}$

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

Fill in the missing numbers in the calculations below.

a) $\dfrac{5}{8} + \dfrac{\boxed{6}}{8} = \dfrac{11}{8}$

b) $\dfrac{7}{9} + \dfrac{\boxed{8}}{9} = \dfrac{15}{9} = 1\dfrac{6}{9}$

Please complete the following calculations which have different denominators. Remember to show your working out. The first one has been done for you.

$\dfrac{1}{8} + \dfrac{1}{2} = \boxed{\dfrac{5}{8}}$

$\dfrac{2}{7} + \dfrac{5}{14} = \boxed{\dfrac{9}{14}}$

$\dfrac{1}{4} + \dfrac{5}{8} = \boxed{\dfrac{7}{8}}$

$\dfrac{3}{8} + \dfrac{1}{16} = \boxed{\dfrac{7}{16}}$

$\dfrac{1}{2} + \dfrac{3}{8} = \boxed{\dfrac{7}{8}}$

$\dfrac{5}{16} + \dfrac{5}{8} = \boxed{\dfrac{15}{16}}$

$\dfrac{5}{6} + \dfrac{1}{12} = \boxed{\dfrac{11}{12}}$

$\dfrac{2}{9} + \dfrac{5}{18} = \boxed{\dfrac{1}{2}}$

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Challenge 1

1 a) $1\frac{1}{2}$ b) $2\frac{1}{4}$ c) $2\frac{3}{4}$

2 $\frac{4}{5} \times \frac{7}{6}$ ✓ $1\frac{1}{2}$ ✓ $\frac{2}{3} \times \frac{5}{4}$ ✓

Challenge 2

1 a) $\frac{15}{4}$ b) $\frac{15}{6}$ c) $\frac{10}{3}$

2 a) $1\frac{5}{6}$ b) $4\frac{2}{3}$ c) $3\frac{3}{4}$

Challenge 3

1 a) $2\frac{1}{5}$ b) $1\frac{6}{8}$ or $1\frac{3}{4}$ c) $2\frac{3}{5}$

2 a) $\frac{15}{6} = \frac{5}{2}$

   b) $1\frac{4}{5} < \frac{11}{5}$