Adding Fractions with Different Denominators

Mental Maths Warm Up

Answer these as quickly as you can, saying your answer out loud or in your head...

- 1. Simplify $\frac{4}{10}$.
- 2. Write $\frac{1}{4}$ as eighths.
- 3. What is $\frac{1}{2} + \frac{1}{4}$?

Now try these. Do your working in the spaces, and copy your answers into the boxes. Give your answers in their simplest form. One has been done for you.

$$\frac{1}{6} + \frac{1}{3}$$

$$\frac{1}{3} = \frac{1 \times 2}{3 \times 2} = \frac{2}{6}$$

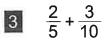
$$\frac{1}{6} + \frac{2}{6} = \frac{3}{6} = \frac{1}{2}$$

$$\frac{2}{3} + \frac{2}{9}$$

$$\frac{1}{4} + \frac{1}{8}$$



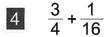
$$\frac{8}{15} + \frac{1}{5}$$





$$\frac{1}{4} + \frac{1}{20}$$

Remember to try and simplify your answer where possible.





$$\frac{5}{28} + \frac{5}{7}$$



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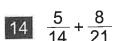
$$9 \frac{1}{2} + \frac{1}{3}$$

$$\frac{1}{2} = \frac{1 \times 3}{2 \times 3} = \frac{3}{6}$$

$$\frac{1}{2} = \frac{1 \times 3}{2 \times 3} = \frac{3}{6} \qquad \qquad \frac{1}{3} = \frac{1 \times 2}{3 \times 2} = \frac{2}{6}$$

$$\frac{3}{6} + \frac{2}{6} = \frac{3+2}{6} = \frac{5}{6}$$

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$$\frac{1}{8} + \frac{5}{12}$$



$$\frac{1}{5} + \frac{1}{8}$$



$$\frac{7}{15} + \frac{9}{25}$$



 $\frac{3}{7} + \frac{1}{10}$

$$\frac{13}{24} + \frac{7}{32}$$

