

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 $\frac{1}{2} + \frac{1}{4}$? XXXXXXXXXX

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.

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

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

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

5 $\frac{2}{3} + \frac{2}{9}$

2 $\frac{1}{4} + \frac{1}{8}$

6 $\frac{8}{15} + \frac{1}{5}$

3 $\frac{2}{5} + \frac{3}{10}$

7 $\frac{1}{4} + \frac{1}{20}$

Remember to try and simplify your answer where possible.

4 $\frac{3}{4} + \frac{1}{16}$

8 $\frac{5}{28} + \frac{5}{7}$

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Try these. Give your answers in their simplest form. One has been done for you.

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

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

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

13 $\frac{1}{8} + \frac{5}{12}$

10 $\frac{1}{5} + \frac{1}{8}$

14 $\frac{5}{14} + \frac{8}{21}$

11 $\frac{3}{7} + \frac{1}{10}$

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

12 $\frac{4}{5} + \frac{1}{9}$

16 $\frac{13}{24} + \frac{7}{32}$

Calcigators can't be beaten by addition with different denominators. How did you get on?

