

**FRACTIONS: Adding fractions with the same denominators.** Date:

Name:

Show your working. Where possible:

- simplify all answers;
- convert to mixed numbers.

|   |   |
|---|---|
| [1]<br>$\frac{2}{12} + \frac{4}{12} =$  | [2]<br>$\frac{4}{12} + \frac{4}{12} =$  |
| [3]<br>$\frac{1}{4} + \frac{2}{4} =$    | [4]<br>$\frac{1}{3} + \frac{1}{3} =$    |
| [5]<br>$\frac{3}{11} + \frac{7}{11} =$  | [6]<br>$\frac{2}{10} + \frac{7}{10} =$  |
| [7]<br>$4\frac{1}{9} + \frac{7}{9} =$   | [8]<br>$4\frac{1}{6} + 2\frac{7}{6} =$  |
| [9]<br>$\frac{9}{15} + 2\frac{7}{15} =$ | [10]<br>$7\frac{4}{5} + 4\frac{3}{5} =$ |

# ANSWERS

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|  |  |
|--|--|
| <p>[1]</p> $\frac{2}{12} + \frac{4}{12} = \frac{6 \div 6}{12 \div 6} = \boxed{\frac{1}{2}}$  | <p>[2]</p> $\frac{4}{12} + \frac{4}{12} = \frac{8 \div 4}{12 \div 4} = \boxed{\frac{2}{3}}$  |
| <p>[3]</p> $\frac{1}{4} + \frac{2}{4} = \boxed{\frac{3}{4}}$   | <p>[4]</p> $\frac{1}{3} + \frac{1}{3} = \boxed{\frac{2}{3}}$   |
| <p>[5]</p> $\frac{3}{11} + \frac{7}{11} = \boxed{\frac{10}{11}}$   | <p>[6]</p> $\frac{2}{10} + \frac{7}{10} = \boxed{\frac{9}{10}}$  |
| <p>[7]</p> $4\frac{1}{9} + \frac{7}{9} = \boxed{4\frac{8}{9}}$   | <p>[8]</p> $4\frac{1}{6} + 2\frac{7}{6} = \frac{1}{6} + \frac{7}{6} = \frac{8 \div 2}{6 \div 2} = \frac{4}{3} = \boxed{1\frac{1}{3}}$ <p><math>4 + 2 = 6</math><br/><math>+ 1\frac{1}{3}</math><br/><math>\hline \boxed{7\frac{1}{3}}</math></p> |
| <p>[9]</p> $\frac{9}{15} + 2\frac{7}{15} = \frac{9}{15} + \frac{7}{15} = \frac{16}{15} = 1\frac{1}{15}$ <p><math>2</math><br/><math>+ 1\frac{1}{15}</math><br/><math>\hline \boxed{3\frac{1}{15}}</math></p> | <p>[10]</p> $7\frac{4}{5} + 4\frac{3}{5} = \frac{4}{5} + \frac{3}{5} = \frac{7}{5} = 1\frac{2}{5}$ <p><math>7 + 4 = 11</math><br/><math>+ 1\frac{2}{5}</math><br/><math>\hline \boxed{12\frac{2}{5}}</math></p>                                  |