## Adding Fractions with Different Denominators

## For each question:

- Write down the answer.
- Show any workings clearly.
- Give your answer in its simplest form.

1. $\frac{5}{7}+\frac{1}{6}=\square$
$\qquad$
$\qquad$
2. $\frac{2}{5}+\frac{3}{11}=$ $\square$
$\qquad$
$\qquad$
3. $\frac{1}{2}+\frac{3}{8}=\square$
$\qquad$
$\qquad$
4. $\frac{1}{3}+\frac{3}{5}=\square$
$\qquad$
$\qquad$
5. $\frac{3}{10}+\frac{2}{6}=\square$
6. $\frac{4}{15}+\frac{1}{2}=$ $\square$
$\qquad$
$\qquad$
7. $\frac{2}{10}+\frac{2}{3}=$ $\square$
$\qquad$
$\qquad$
8. Billy says that $\frac{1}{3}+\frac{5}{8}$ is $\frac{6}{11}$.

Explain why Billy isn't correct and give the correct answer.
$\qquad$
$\qquad$
9. Show how $\frac{2}{5}+\frac{4}{10}$ is the same as $\frac{4}{5}$.
$\qquad$
$\qquad$
10. Paul says that $\frac{3}{9}+\frac{2}{6}$ is $\frac{12}{18}$ which is equivalent to $\frac{2}{3}$. Laura says that the answer is $\frac{1}{3}$.
Who is correct and why?
$\qquad$
$\qquad$

# Adding Fractions with Different Denominators Answers 

1. $\frac{37}{42}$
2. $\frac{37}{55}$
3. $\frac{7}{8}$
4. $\frac{14}{15}$
5. $\frac{19}{30}$
6. $\frac{23}{30}$
7. $\frac{26}{30}=\frac{13}{15}$
8. Billy's answer is incorrect because you can't simply add the numerators and denominators together; you have to find a common denominator first. The answer should be $\frac{23}{24}$.
9. $\frac{2}{5}+\frac{4}{10}=\frac{4}{10}+\frac{4}{10}$.
$\frac{4}{10}+\frac{4}{10}=\frac{8}{10}$.
The highest common factor for 8 and 10 is 2 .
$\frac{8}{10}$ is equivalent to $\frac{4}{5}$.
10. Paul is correct.
$\frac{3}{9}+\frac{2}{6}=\frac{6}{18}+\frac{6}{18}$
$\frac{6}{18}+\frac{6}{18}=\frac{12}{18}$.
The highest common factor for 6 and 18 is 6 .
$\frac{12}{18}=\frac{2}{3}$
