## TARGET To add and subtract fractions with the same denominator.

Adding fractions with the same bottom number (denominator).
Add the top numbers (numerators) and put the answer over the same denominator.

***Example*** A bar of chocolate has 8 squares
3 are eaten. 2 more are eaten.
What fraction of the bar has been eaten?

$\frac{3}{8} + \frac{2}{8} = \frac{5}{8}$

Answer: $\frac{5}{8}$ *has been eaten*

Subtracting fractions with the same denominator.
Subtract the second numerator from the first and put the answer over the same denominator.

***Example*** A pizza has 10 slices.
7 slices are left. 3 more are eaten.
What fraction of the pizza is left?

$\frac{7}{10} - \frac{3}{10} = \frac{4}{10}$

Answer: $\frac{4}{10}$ *is left.*

### A

Work out.

1. $\frac{1}{4} + \frac{1}{4} = \frac{\square}{4}$
2. $\frac{2}{6} + \frac{3}{6} = \frac{\square}{6}$
3. $\frac{6}{10} + \frac{3}{10} = \frac{\square}{10}$
4. $\frac{5}{8} + \frac{1}{8} = \frac{\square}{8}$
5. $\frac{2}{5} + \frac{1}{5} = \frac{\square}{5}$
6. $\frac{4}{11} + \frac{5}{11} = \frac{\square}{11}$
7. $\frac{2}{3} - \frac{1}{3} = \frac{\square}{3}$
8. $\frac{6}{8} - \frac{5}{8} = \frac{\square}{8}$
9. $\frac{4}{5} - \frac{2}{5} = \frac{\square}{5}$
10. $\frac{7}{10} - \frac{5}{10} = \frac{\square}{10}$
11. $\frac{3}{4} - \frac{2}{4} = \frac{\square}{4}$
12. $\frac{11}{12} - \frac{7}{12} = \frac{\square}{12}$

### B

Work out

1. $\frac{1}{9} + \frac{6}{9}$
2. $\frac{3}{5} + \frac{1}{5}$
3. $\frac{1}{8} + \frac{4}{8}$
4. $\frac{6}{10} + \frac{2}{10}$
5. $\frac{2}{7} + \frac{4}{7}$
6. $\frac{4}{12} + \frac{5}{12}$
7. $\frac{7}{8} - \frac{5}{8}$
8. $\frac{4}{4} - \frac{3}{4}$
9. $\frac{6}{10} - \frac{3}{10}$
10. $\frac{5}{7} - \frac{4}{7}$
11. $\frac{6}{6} - \frac{4}{6}$
12. $\frac{9}{11} - \frac{2}{11}$

Copy and complete.

13. $\frac{1}{10} + \frac{\square}{10} = \frac{9}{10}$
14. $\frac{5}{12} + \frac{\square}{12} = \frac{7}{12}$
15. $\frac{\square}{9} + \frac{3}{9} = \frac{8}{9}$
16. $\frac{11}{11} - \frac{\square}{11} = \frac{3}{11}$
17. $\frac{7}{8} - \frac{\square}{8} = \frac{4}{8}$
18. $\frac{9}{10} - \frac{\square}{10} = \frac{5}{10}$

### C

Copy and complete.

1. $\frac{3}{10} + \frac{\square}{10} + \frac{1}{10} = \frac{8}{10}$
2. $\frac{1}{6} + \frac{1}{6} + \frac{\square}{6} = \frac{5}{6}$
3. $\frac{\square}{9} + \frac{2}{9} + \frac{3}{9} = \frac{7}{9}$
4. $\frac{1}{7} + \frac{4}{7} + \frac{\square}{7} = 1$
5. $\frac{3}{11} + \frac{\square}{11} + \frac{3}{11} = \frac{10}{11}$
6. $\frac{\square}{12} + \frac{2}{12} + \frac{1}{12} = \frac{9}{12}$
7. $\frac{7}{8} - \frac{1}{8} - \frac{\square}{8} = \frac{1}{8}$
8. $1 - \frac{\square}{5} - \frac{2}{5} = \frac{2}{5}$
9. $1 - \frac{4}{9} - \frac{\square}{9} = \frac{2}{9}$
10. $\frac{11}{12} - \frac{\square}{12} - \frac{2}{12} = \frac{4}{12}$
11. $1 - \frac{2}{10} - \frac{\square}{10} = \frac{1}{10}$
12. $\frac{9}{11} - \frac{\square}{11} - \frac{5}{11} = \frac{2}{11}$