

Challenge 1:

- 1) $\frac{3}{5} + \frac{2}{5}$
- 2) $\frac{7}{10} + \frac{1}{10}$
- 3) $\frac{4}{5} - \frac{2}{5}$
- 4) $\frac{7}{9} - \frac{3}{9}$
- 5) $\frac{5}{6} + \frac{2}{6}$
- 6) $\frac{6}{7} - \frac{2}{7}$

Joanne eats $\frac{3}{8}$ of a bunch of grapes; David eats $\frac{2}{8}$ of a bunch of grapes.
What fraction of the grapes have they eaten altogether?

Challenge 1:

- 1) $\frac{3}{5} + \frac{2}{5}$
- 2) $\frac{7}{10} + \frac{1}{10}$
- 3) $\frac{4}{5} - \frac{2}{5}$
- 4) $\frac{7}{9} - \frac{3}{9}$
- 5) $\frac{5}{6} + \frac{2}{6}$
- 6) $\frac{6}{7} - \frac{2}{7}$

Joanne eats $\frac{3}{8}$ of a bunch of grapes; David eats $\frac{2}{8}$ of a bunch of grapes.
What fraction of the grapes have they eaten altogether?

Challenge 1:

- 1) $\frac{3}{5} + \frac{2}{5}$
- 2) $\frac{7}{10} + \frac{1}{10}$
- 3) $\frac{4}{5} - \frac{2}{5}$
- 4) $\frac{7}{9} - \frac{3}{9}$
- 5) $\frac{5}{6} + \frac{2}{6}$
- 6) $\frac{6}{7} - \frac{2}{7}$

Joanne eats $\frac{3}{8}$ of a bunch of grapes; David eats $\frac{2}{8}$ of a bunch of grapes.
What fraction of the grapes have they eaten altogether?

Challenge 2:

1) $\frac{8}{11} + \frac{5}{11}$

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

3) $\frac{4}{5} - \frac{1}{5}$

4) $\frac{3}{10} + \frac{4}{10}$

5) $\frac{7}{12} - \frac{3}{12}$

6) $\frac{3}{8} + \frac{1}{8}$

7) Joanne eats $\frac{3}{8}$ of a bunch of grapes; David eats $\frac{2}{8}$ of a bunch of grapes. What fraction of the grapes have they eaten altogether?

8) David has $\frac{4}{7}$ of a cream cake. Sarah has $\frac{1}{7}$ of the same cream cake. What fraction of the cake have they eaten altogether?

9)

Challenge 2:

1) $\frac{8}{11} + \frac{5}{11}$

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

3) $\frac{4}{5} - \frac{1}{5}$

4) $\frac{3}{10} + \frac{4}{10}$

5) $\frac{7}{12} - \frac{3}{12}$

6) $\frac{3}{8} + \frac{1}{8}$

7) Joanne eats $\frac{3}{8}$ of a bunch of grapes; David eats $\frac{2}{8}$ of a bunch of grapes. What fraction of the grapes have they eaten altogether?

8) David has $\frac{4}{7}$ of a cream cake. Sarah has $\frac{1}{7}$ of the same cream cake. What fraction of the cake have they eaten altogether?

Challenge 3:

Fill in the missing fractions

1) $\frac{5}{8} + \frac{?}{?} = \frac{7}{8}$

2) $\frac{5}{6} - \frac{?}{?} = \frac{1}{6}$

3) $\frac{3}{4} - \frac{?}{?} = \frac{1}{4}$

4) $\frac{3}{7} + \frac{?}{?} = 1$

5) $\frac{?}{?} - \frac{2}{6} = \frac{1}{6}$

6) The answer to a question is $\frac{4}{9}$; what is the question?

7) True or false?

$\frac{5}{12} + \frac{3}{12} = \frac{8}{12}$

$\frac{5}{12} + \frac{3}{12} = \frac{8}{24}$

$\frac{5}{12} + \frac{3}{12} = \frac{4}{6}$

Explain your reasoning.

Challenge 3:

Fill in the missing fractions

1) $\frac{5}{8} + \frac{?}{?} = \frac{7}{8}$

2) $\frac{5}{6} - \frac{?}{?} = \frac{1}{6}$

3) $\frac{3}{4} - \frac{?}{?} = \frac{1}{4}$

4) $\frac{3}{7} + \frac{?}{?} = 1$

5) $\frac{?}{?} - \frac{2}{6} = \frac{1}{6}$

6) The answer to a question is $\frac{4}{9}$; what is the question?

7) True or false?

$\frac{5}{12} + \frac{3}{12} = \frac{8}{12}$

$\frac{5}{12} + \frac{3}{12} = \frac{8}{24}$

$\frac{5}{12} + \frac{3}{12} = \frac{4}{6}$

Explain your reasoning.

Adding and subtracting fractions 2

Practise

- 1) $7/6$ or 1 and $1/6$
- 2) $4/7$
- 3) $13/11$ or 1 and $2/11$
- 4) $7/9$
- 5) $3/5$
- 6) $7/10$
- 7) $4/12$ or $1/3$
- 8) $4/8$ or $1/2$

Fluency

Fill in the missing fractions

- 1) $2/4$
- 2) $4/7$
- 3) $3/6$

Draw diagrams to represent the following problems:

4-6 Diagrams may vary but show addition of two different fractions including using circles and the bar model

Reasoning

- 1) Question may vary
- 2) True or false?

True – Add two numerators but not denominators

False – Made mistake of adding the denominators

True – Correct answer then simplified

3) The answer take away $1/10$ meaning the fraction goes down by $1/10$ each time

e.g. $5/10 - 1/10 = 4/10$ $4/10 - 1/10 = 3/10$

Adding and subtracting fractions 3

Practise

- 1) $1\frac{3}{11}$ or 1 and $\frac{2}{11}$
- 2) $\frac{7}{9}$
- 3) $\frac{3}{5}$
- 4) $\frac{7}{10}$
- 5) $\frac{4}{12}$ or $\frac{1}{3}$
- 6) $\frac{4}{8}$ or $\frac{1}{2}$

Fluency

Fill in the missing fractions

- 1) $\frac{4}{7}$
- 2) $\frac{3}{6}$

Draw diagrams to represent the following problems:

3 and 4 Diagrams may vary but show addition of two different fractions including using circles and the bar model

Reasoning

- 1) Question may vary
- 2) True or false?

True – Add two numerators but not denominators

False – Made mistake of adding the denominators

True – Correct answer then simplified

Problem solving

- 1) From $\frac{2}{6} - \frac{1}{6}$ up to $\frac{6}{6} - \frac{5}{6}$ and then into improper fractions if they wish
- 2) Numerous methods to solve each question