

# Arithmetic – Adding Fractions and Mixed Numbers

## Information:

These questions have been taken from the KS2 Arithmetic test to help your children practice specific question types.

## National Curriculum Objectives:

Mathematics Year 6 (6F4): [Add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions](#)

## Differentiation:

**Introduction** Add a mixed number and a fraction with the same denominator, within a whole. Aimed at Year 6 Developing.

**Beginner** Add a mixed number and a fraction with the same denominator, across a whole. Aimed at Year 6 Developing.

**Easy** Add a mixed number and a fraction where one denominator is a direct multiple of the other, within a whole (using 2, 3, 4, 5, and 10 times tables). Aimed at Year 6 Expected.

**Tricky** Add a mixed number and a fraction where one denominator is a direct multiple of the other, across a whole (using 2, 3, 4, 5, and 10 times tables). Aimed at Year 6 Expected.

**Expert** Add a mixed number and a fraction where one denominator is a direct multiple of the other, within a whole (using up to 12 times tables). Aimed at Year 6 Expected.

**Brainbox** Add a mixed number and a fraction where one denominator is a direct multiple of the other, across a whole (using up to 12 times tables). Aimed at Year 6 Greater Depth.

**Genius** Add a mixed number and a fraction with different denominators, within a whole. Aimed at Year 6 Greater Depth.

**Extraordinaire** Add a mixed number and a fraction with different denominators, across a whole. Aimed at Year 6 Greater Depth.

More [Arithmetic](#) resources.

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Adding Fractions and Mixed Numbers – Teaching Information

# Arithmetic – Adding Fractions and Mixed Numbers

1

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

2

$$5 \frac{2}{7} + \frac{3}{7} =$$

3

$$9 \frac{1}{10} + \frac{3}{10} =$$

# Arithmetic – Adding Fractions and Mixed Numbers

4

$$3\frac{4}{9} + \frac{3}{9} =$$

5

$$11\frac{4}{7} + \frac{2}{7} =$$

6

$$7\frac{3}{8} + \frac{3}{8} =$$

# Arithmetic – Adding Fractions and Mixed Numbers

7

$$4 \frac{8}{11} + \frac{2}{11} =$$

8

$$11 \frac{3}{10} + \frac{3}{10} =$$

9

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

# Arithmetic – Adding Fractions and Mixed Numbers

10

$$15\frac{7}{25} + \frac{11}{25} =$$

11

$$2\frac{7}{9} + \frac{1}{9} =$$

12

$$9\frac{10}{21} + \frac{8}{21} =$$

# Arithmetic – Adding Fractions and Mixed Numbers

1

$$8 \frac{3}{4} + \frac{3}{4} =$$

2

$$7 \frac{6}{7} + \frac{4}{7} =$$

3

$$2 \frac{9}{10} + \frac{3}{10} =$$

## Arithmetic – Adding Fractions and Mixed Numbers

4

$$11\frac{5}{9} + \frac{7}{9} =$$

5

$$1\frac{6}{7} + \frac{3}{7} =$$

6

$$10\frac{5}{8} + \frac{7}{8} =$$

# Arithmetic – Adding Fractions and Mixed Numbers

7

$$3\frac{7}{11} + \frac{9}{11} =$$

8

$$18\frac{7}{10} + \frac{9}{10} =$$

9

$$3\frac{7}{8} + \frac{5}{8} =$$



# Arithmetic – Adding Fractions and Mixed Numbers

10

$$7\frac{11}{25} + \frac{22}{25} =$$

11

$$6\frac{8}{9} + \frac{3}{9} =$$

12

$$43\frac{19}{21} + \frac{13}{21} =$$

# Arithmetic – Adding Fractions and Mixed Numbers

1

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

2

$$3\frac{1}{3} + \frac{5}{12} =$$

3

$$11\frac{3}{10} + \frac{1}{5} =$$

## Arithmetic – Adding Fractions and Mixed Numbers

4

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

5

$$1 \frac{1}{4} + \frac{9}{20} =$$

6

$$9 \frac{1}{8} + \frac{1}{2} =$$

## Arithmetic – Adding Fractions and Mixed Numbers

7

$$3\frac{7}{24} + \frac{1}{4} =$$

8

$$17\frac{3}{10} + \frac{9}{50} =$$

9

$$6\frac{2}{15} + \frac{2}{3} =$$

# Arithmetic – Adding Fractions and Mixed Numbers

10

$$7\frac{1}{2} + \frac{9}{22} =$$

11

$$16\frac{2}{3} + \frac{4}{21} =$$

12

$$4\frac{1}{25} + \frac{3}{5} =$$

# Arithmetic – Adding Fractions and Mixed Numbers

1

$$2 \frac{3}{4} + \frac{1}{2} =$$

2

$$7 \frac{2}{3} + \frac{7}{12} =$$

3

$$6 \frac{9}{10} + \frac{3}{5} =$$

## Arithmetic – Adding Fractions and Mixed Numbers

4

$$12\frac{5}{9} + \frac{2}{3} =$$

5

$$1\frac{3}{4} + \frac{9}{20} =$$

6

$$7\frac{7}{8} + \frac{1}{2} =$$

# Arithmetic – Adding Fractions and Mixed Numbers

7

$$5 \frac{23}{24} + \frac{1}{4} =$$

8

$$7 \frac{7}{10} + \frac{23}{50} =$$

9

$$16 \frac{8}{15} + \frac{2}{3} =$$



## Arithmetic – Adding Fractions and Mixed Numbers

10

$$1 \frac{1}{2} + \frac{19}{22} =$$

11

$$7 \frac{2}{3} + \frac{16}{21} =$$

12

$$4 \frac{13}{25} + \frac{4}{5} =$$

# Arithmetic – Adding Fractions and Mixed Numbers

1

$$2\frac{7}{36} + \frac{1}{6} =$$

2

$$4\frac{2}{7} + \frac{7}{28} =$$

3

$$14\frac{9}{11} + \frac{3}{55} =$$

# Arithmetic – Adding Fractions and Mixed Numbers

4

$$6 \frac{7}{12} + \frac{5}{36} =$$

5

$$9 \frac{3}{7} + \frac{9}{28} =$$

6

$$2 \frac{1}{6} + \frac{7}{54} =$$

# Arithmetic – Adding Fractions and Mixed Numbers

7

$$3\frac{23}{81} + \frac{1}{9} =$$

8

$$10\frac{7}{12} + \frac{29}{60} =$$

9

$$1\frac{17}{48} + \frac{3}{8} =$$

# Arithmetic – Adding Fractions and Mixed Numbers

10

$$21\frac{2}{7} + \frac{19}{35} =$$

11

$$3\frac{5}{9} + \frac{11}{108} =$$

12

$$4\frac{5}{42} + \frac{1}{6} =$$

# Arithmetic – Adding Fractions and Mixed Numbers

1

$$2\frac{17}{36} + \frac{5}{6} =$$

2

$$9\frac{4}{7} + \frac{25}{28} =$$

3

$$11\frac{9}{11} + \frac{41}{55} =$$

## Arithmetic – Adding Fractions and Mixed Numbers

4

$$8 \frac{11}{12} + \frac{19}{36} =$$

5

$$7 \frac{5}{7} + \frac{17}{28} =$$

6

$$2 \frac{5}{6} + \frac{11}{54} =$$

# Arithmetic – Adding Fractions and Mixed Numbers

7

$$18\frac{63}{81} + \frac{4}{9} =$$

8

$$1\frac{11}{12} + \frac{41}{60} =$$

9

$$4\frac{37}{48} + \frac{5}{8} =$$



## Arithmetic – Adding Fractions and Mixed Numbers

10

$$17\frac{6}{7} + \frac{19}{35} =$$

11

$$6\frac{5}{9} + \frac{97}{108} =$$

12

$$4\frac{23}{42} + \frac{5}{6} =$$

# Arithmetic – Adding Fractions and Mixed Numbers

1

$$7\frac{1}{2} + \frac{1}{7} =$$

2

$$8\frac{3}{7} + \frac{1}{9} =$$

3

$$12\frac{2}{11} + \frac{1}{2} =$$

# Arithmetic – Adding Fractions and Mixed Numbers

4

$$6\frac{4}{9} + \frac{1}{6} =$$

5

$$2\frac{1}{7} + \frac{2}{5} =$$

6

$$16\frac{1}{6} + \frac{1}{4} =$$

# Arithmetic – Adding Fractions and Mixed Numbers

7

$$8 \frac{2}{11} + \frac{1}{9} =$$

8

$$6 \frac{1}{12} + \frac{2}{5} =$$

9

$$5 \frac{1}{3} + \frac{3}{8} =$$

# Arithmetic – Adding Fractions and Mixed Numbers

10

$$7\frac{2}{7} + \frac{1}{3} =$$

11

$$9\frac{1}{9} + \frac{3}{8} =$$

12

$$3\frac{2}{5} + \frac{1}{6} =$$

# Arithmetic – Adding Fractions and Mixed Numbers

1

$$7\frac{1}{2} + \frac{5}{7} =$$

2

$$8\frac{3}{7} + \frac{7}{9} =$$

3

$$12\frac{9}{11} + \frac{1}{2} =$$

## Arithmetic – Adding Fractions and Mixed Numbers

4

$$6 \frac{4}{9} + \frac{5}{6} =$$

5

$$9 \frac{2}{7} + \frac{4}{5} =$$

6

$$1 \frac{5}{6} + \frac{3}{4} =$$

## Arithmetic – Adding Fractions and Mixed Numbers

7

$$3\frac{5}{11} + \frac{7}{9} =$$

8

$$9\frac{11}{12} + \frac{2}{5} =$$

9

$$4\frac{2}{3} + \frac{5}{8} =$$



# Arithmetic – Adding Fractions and Mixed Numbers

10

$$8 \frac{5}{7} + \frac{2}{3} =$$

11

$$9 \frac{8}{9} + \frac{3}{8} =$$

12

$$7 \frac{3}{5} + \frac{5}{6} =$$

# Arithmetic – Adding Fractions and Mixed Numbers

## Introduction (Accept equivalent mixed numbers or fractions)

1.  $2\frac{2}{4}$  or  $2\frac{1}{2}$     2.  $5\frac{5}{7}$     3.  $9\frac{4}{10}$     4.  $3\frac{7}{9}$     5.  $11\frac{6}{7}$     6.  $7\frac{3}{4}$  or  $7\frac{6}{8}$   
7.  $4\frac{10}{11}$     8.  $11\frac{6}{10}$  or  $11\frac{3}{5}$     9.  $8\frac{6}{8}$  or  $8\frac{3}{4}$     10.  $15\frac{18}{25}$     11.  $2\frac{8}{9}$     12.  $9\frac{18}{21}$  or  $9\frac{6}{7}$

## Beginner (Accept equivalent mixed numbers or fractions but not for example $11\frac{11}{9}$ )

1.  $9\frac{2}{4}$  or  $9\frac{1}{2}$     2.  $8\frac{3}{7}$     3.  $3\frac{2}{10}$  or  $3\frac{1}{5}$     4.  $12\frac{3}{9}$  or  $12\frac{1}{3}$     5.  $2\frac{2}{7}$     6.  $11\frac{1}{2}$  or  $11\frac{4}{8}$   
7.  $4\frac{5}{11}$     8.  $19\frac{6}{10}$  or  $19\frac{3}{5}$     9.  $4\frac{4}{8}$  or  $4\frac{1}{2}$     10.  $8\frac{8}{25}$     11.  $7\frac{2}{9}$     12.  $44\frac{11}{21}$

## Easy (Accept equivalent mixed numbers or fractions but not for example $11\frac{11}{9}$ )

1.  $8\frac{3}{4}$     2.  $3\frac{9}{12}$  or  $3\frac{3}{4}$     3.  $11\frac{5}{10}$  or  $11\frac{1}{2}$     4.  $1\frac{7}{9}$     5.  $1\frac{14}{20}$  or  $1\frac{7}{10}$     6.  $9\frac{5}{8}$   
7.  $3\frac{13}{24}$     8.  $17\frac{24}{50}$  or  $17\frac{12}{25}$     9.  $6\frac{12}{15}$  or  $6\frac{4}{5}$     10.  $7\frac{20}{22}$  or  $7\frac{10}{11}$     11.  $16\frac{18}{21}$  or  $16\frac{6}{7}$     12.  $4\frac{16}{25}$

## Tricky (Accept equivalent mixed numbers or fractions but not for example $11\frac{11}{9}$ )

1.  $3\frac{1}{4}$     2.  $8\frac{3}{12}$  or  $8\frac{1}{4}$     3.  $7\frac{5}{10}$  or  $7\frac{1}{2}$     4.  $13\frac{2}{9}$     5.  $2\frac{4}{20}$  or  $2\frac{1}{5}$     6.  $8\frac{3}{8}$   
7.  $6\frac{5}{24}$     8.  $8\frac{4}{25}$     9.  $17\frac{3}{15}$  or  $17\frac{1}{5}$     10.  $2\frac{8}{22}$  or  $2\frac{4}{11}$     11.  $8\frac{9}{21}$  or  $8\frac{3}{7}$     12.  $5\frac{8}{25}$

## Expert (Accept equivalent mixed numbers or fractions but not for example $11\frac{11}{9}$ )

1.  $2\frac{13}{36}$     2.  $4\frac{15}{28}$     3.  $14\frac{48}{55}$     4.  $6\frac{26}{36}$  or  $6\frac{13}{18}$     5.  $9\frac{21}{28}$  or  $9\frac{3}{4}$     6.  $2\frac{16}{54}$  or  $2\frac{8}{27}$   
7.  $3\frac{32}{81}$     8.  $11\frac{4}{60}$  or  $11\frac{1}{15}$     9.  $1\frac{35}{48}$     10.  $21\frac{29}{35}$     11.  $3\frac{71}{108}$     12.  $4\frac{12}{42}$  or  $4\frac{2}{7}$

## Brainbox (Accept equivalent mixed numbers or fractions but not for example $11\frac{11}{9}$ )

1.  $3\frac{11}{36}$     2.  $10\frac{13}{28}$     3.  $12\frac{31}{55}$     4.  $9\frac{16}{36}$  or  $9\frac{4}{9}$     5.  $8\frac{9}{28}$     6.  $3\frac{2}{54}$  or  $3\frac{1}{27}$   
7.  $19\frac{2}{9}$     8.  $2\frac{36}{60}$  or  $2\frac{3}{5}$     9.  $5\frac{19}{48}$     10.  $18\frac{14}{35}$  or  $18\frac{2}{5}$     11.  $7\frac{49}{108}$     12.  $5\frac{16}{42}$  or  $5\frac{8}{21}$

## Genius (Accept equivalent mixed numbers or fractions but not for example $11\frac{11}{9}$ )

1.  $7\frac{9}{14}$     2.  $8\frac{34}{63}$     3.  $12\frac{15}{22}$     4.  $6\frac{33}{54}$  or  $6\frac{11}{18}$     5.  $2\frac{19}{35}$     6.  $16\frac{10}{24}$  or  $16\frac{5}{12}$   
7.  $8\frac{29}{99}$     8.  $6\frac{29}{60}$     9.  $5\frac{17}{24}$     10.  $7\frac{13}{21}$     11.  $9\frac{35}{72}$     12.  $3\frac{17}{30}$

## Extraordinaire (Accept equivalent mixed numbers or fractions but not for example $11\frac{11}{9}$ )

1.  $8\frac{3}{14}$     2.  $9\frac{13}{63}$     3.  $13\frac{7}{22}$     4.  $7\frac{15}{54}$  or  $7\frac{5}{18}$     5.  $10\frac{3}{35}$     6.  $2\frac{14}{24}$  or  $2\frac{7}{12}$   
7.  $4\frac{23}{99}$     8.  $10\frac{19}{60}$     9.  $5\frac{7}{24}$     10.  $9\frac{8}{21}$     11.  $10\frac{19}{72}$     12.  $8\frac{13}{30}$