

★ Fractions - Arithmetic

On this sheet, children will solve one-step addition and subtraction calculations.

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Write the calculations in your book and solve them. Use equipment or drawings if needed.

★	★★	★★★
$\frac{1}{2} + \frac{1}{2}$	$\frac{1}{2} + \frac{1}{4}$	$\frac{1}{2} + \frac{1}{4} + \frac{1}{4}$
$\frac{1}{4} + \frac{1}{4}$	$\frac{1}{4} + \frac{1}{4}$	$\frac{1}{4} + \frac{1}{4} + \frac{1}{4}$
$\frac{3}{4} - \frac{1}{4}$	$\frac{3}{4} - \frac{1}{4}$	$\frac{3}{4} - \frac{1}{4}$
$\frac{1}{2} - \frac{1}{4}$	$\frac{1}{2} - \frac{1}{4}$	$\frac{1}{2} - \frac{1}{4}$
$\frac{3}{4} - \frac{1}{4}$	$\frac{3}{4} - \frac{1}{4}$	$\frac{3}{4} - \frac{1}{4}$
$\frac{1}{2} - \frac{1}{4}$	$\frac{1}{2} - \frac{1}{4}$	$\frac{1}{2} - \frac{1}{4}$
$\frac{3}{4} - \frac{1}{4}$	$\frac{3}{4} - \frac{1}{4}$	$\frac{3}{4} - \frac{1}{4}$
$\frac{1}{2} - \frac{1}{4}$	$\frac{1}{2} - \frac{1}{4}$	$\frac{1}{2} - \frac{1}{4}$
$\frac{3}{4} - \frac{1}{4}$	$\frac{3}{4} - \frac{1}{4}$	$\frac{3}{4} - \frac{1}{4}$
$\frac{1}{2} - \frac{1}{4}$	$\frac{1}{2} - \frac{1}{4}$	$\frac{1}{2} - \frac{1}{4}$
$\frac{3}{4} - \frac{1}{4}$	$\frac{3}{4} - \frac{1}{4}$	$\frac{3}{4} - \frac{1}{4}$
$\frac{1}{2} - \frac{1}{4}$	$\frac{1}{2} - \frac{1}{4}$	$\frac{1}{2} - \frac{1}{4}$
$\frac{3}{4} - \frac{1}{4}$	$\frac{3}{4} - \frac{1}{4}$	$\frac{3}{4} - \frac{1}{4}$
$\frac{1}{2} - \frac{1}{4}$	$\frac{1}{2} - \frac{1}{4}$	$\frac{1}{2} - \frac{1}{4}$
$\frac{3}{4} - \frac{1}{4}$	$\frac{3}{4} - \frac{1}{4}$	$\frac{3}{4} - \frac{1}{4}$

★★ Fractions - Arithmetic

On this sheet, children will solve two-step addition and subtraction calculations.

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Write the calculations in your book and solve them. Use equipment or drawings if needed.

★	★★	★★★
$\frac{1}{2} + \frac{1}{2}$	$\frac{1}{2} + \frac{1}{4}$	$\frac{1}{2} + \frac{1}{4} + \frac{1}{4}$
$\frac{1}{4} + \frac{1}{4}$	$\frac{1}{4} + \frac{1}{4}$	$\frac{1}{4} + \frac{1}{4} + \frac{1}{4}$
$\frac{3}{4} - \frac{1}{4}$	$\frac{3}{4} - \frac{1}{4}$	$\frac{3}{4} - \frac{1}{4}$
$\frac{1}{2} - \frac{1}{4}$	$\frac{1}{2} - \frac{1}{4}$	$\frac{1}{2} - \frac{1}{4}$
$\frac{3}{4} - \frac{1}{4}$	$\frac{3}{4} - \frac{1}{4}$	$\frac{3}{4} - \frac{1}{4}$
$\frac{1}{2} - \frac{1}{4}$	$\frac{1}{2} - \frac{1}{4}$	$\frac{1}{2} - \frac{1}{4}$
$\frac{3}{4} - \frac{1}{4}$	$\frac{3}{4} - \frac{1}{4}$	$\frac{3}{4} - \frac{1}{4}$
$\frac{1}{2} - \frac{1}{4}$	$\frac{1}{2} - \frac{1}{4}$	$\frac{1}{2} - \frac{1}{4}$
$\frac{3}{4} - \frac{1}{4}$	$\frac{3}{4} - \frac{1}{4}$	$\frac{3}{4} - \frac{1}{4}$
$\frac{1}{2} - \frac{1}{4}$	$\frac{1}{2} - \frac{1}{4}$	$\frac{1}{2} - \frac{1}{4}$
$\frac{3}{4} - \frac{1}{4}$	$\frac{3}{4} - \frac{1}{4}$	$\frac{3}{4} - \frac{1}{4}$
$\frac{1}{2} - \frac{1}{4}$	$\frac{1}{2} - \frac{1}{4}$	$\frac{1}{2} - \frac{1}{4}$
$\frac{3}{4} - \frac{1}{4}$	$\frac{3}{4} - \frac{1}{4}$	$\frac{3}{4} - \frac{1}{4}$
$\frac{1}{2} - \frac{1}{4}$	$\frac{1}{2} - \frac{1}{4}$	$\frac{1}{2} - \frac{1}{4}$
$\frac{3}{4} - \frac{1}{4}$	$\frac{3}{4} - \frac{1}{4}$	$\frac{3}{4} - \frac{1}{4}$

★★★ Fractions - Arithmetic

On this sheet, children will solve multi-step addition and subtraction calculations.

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Write the calculations in your book and solve them. Use equipment or drawings if needed.

★	★★	★★★
$\frac{1}{2} + \frac{1}{2}$	$\frac{1}{2} + \frac{1}{4}$	$\frac{1}{2} + \frac{1}{4} + \frac{1}{4}$
$\frac{1}{4} + \frac{1}{4}$	$\frac{1}{4} + \frac{1}{4}$	$\frac{1}{4} + \frac{1}{4} + \frac{1}{4}$
$\frac{3}{4} - \frac{1}{4}$	$\frac{3}{4} - \frac{1}{4}$	$\frac{3}{4} - \frac{1}{4}$
$\frac{1}{2} - \frac{1}{4}$	$\frac{1}{2} - \frac{1}{4}$	$\frac{1}{2} - \frac{1}{4}$
$\frac{3}{4} - \frac{1}{4}$	$\frac{3}{4} - \frac{1}{4}$	$\frac{3}{4} - \frac{1}{4}$
$\frac{1}{2} - \frac{1}{4}$	$\frac{1}{2} - \frac{1}{4}$	$\frac{1}{2} - \frac{1}{4}$
$\frac{3}{4} - \frac{1}{4}$	$\frac{3}{4} - \frac{1}{4}$	$\frac{3}{4} - \frac{1}{4}$
$\frac{1}{2} - \frac{1}{4}$	$\frac{1}{2} - \frac{1}{4}$	$\frac{1}{2} - \frac{1}{4}$
$\frac{3}{4} - \frac{1}{4}$	$\frac{3}{4} - \frac{1}{4}$	$\frac{3}{4} - \frac{1}{4}$
$\frac{1}{2} - \frac{1}{4}$	$\frac{1}{2} - \frac{1}{4}$	$\frac{1}{2} - \frac{1}{4}$
$\frac{3}{4} - \frac{1}{4}$	$\frac{3}{4} - \frac{1}{4}$	$\frac{3}{4} - \frac{1}{4}$
$\frac{1}{2} - \frac{1}{4}$	$\frac{1}{2} - \frac{1}{4}$	$\frac{1}{2} - \frac{1}{4}$
$\frac{3}{4} - \frac{1}{4}$	$\frac{3}{4} - \frac{1}{4}$	$\frac{3}{4} - \frac{1}{4}$
$\frac{1}{2} - \frac{1}{4}$	$\frac{1}{2} - \frac{1}{4}$	$\frac{1}{2} - \frac{1}{4}$
$\frac{3}{4} - \frac{1}{4}$	$\frac{3}{4} - \frac{1}{4}$	$\frac{3}{4} - \frac{1}{4}$

Reasoning & Problem Solving

Fractions - Arithmetic

Children continue working on adding and subtracting fractions by answering reasoning tasks.

Arithmetic Lesson Reasoning & Problem Solving 3

Using given cards once, complete the calculations.

2 7 4 5 1 9 8

$\frac{\square}{10} + \frac{\square}{10} = \frac{\square}{10}$

$\frac{\square}{11} + \frac{\square}{11} = \frac{\square}{11}$

How many fraction addition and subtraction calculations can you make from this model?

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Write the calculations in your book and solve them. Use equipment or drawings if needed.

★	★ ★	★ ★ ★
$\frac{2}{6} + \frac{2}{6} =$	$\frac{4}{6} + \frac{1}{6} =$	$\frac{\boxed{}}{6} + \frac{2}{6} + \frac{\boxed{}}{6} = \frac{5}{6}$
$\frac{4}{9} + \frac{1}{9} =$	$\frac{4}{10} - \frac{1}{10} =$	$\frac{\boxed{}}{10} + \frac{7}{10} + \frac{\boxed{}}{10} = \frac{8}{10}$
$\frac{5}{7} + \frac{2}{7} =$	$\frac{9}{11} - \frac{4}{11} =$	$\frac{13}{15} - \frac{6}{15} = \boxed{}$
$\frac{1}{3} + \frac{1}{3} =$	$\frac{1}{6} + \frac{2}{6} + \frac{3}{6} =$	$\frac{12}{\boxed{}} - \frac{\boxed{}}{12} = \frac{6}{12}$
$\frac{2}{8} + \frac{4}{8} =$	$\frac{4}{10} + \frac{3}{10} + \frac{2}{10} =$	$\frac{3}{9} + \frac{3}{9} = \boxed{}$
$\frac{4}{10} - \frac{1}{10} =$	$\frac{11}{12} - \frac{8}{12} =$	$\frac{\boxed{}}{15} - \frac{\boxed{}}{15} = \frac{6}{15}$
$\frac{7}{9} - \frac{6}{9} =$	$\frac{7}{7} - \frac{7}{7} =$	$\frac{1}{8} + \frac{\boxed{}}{8} + \frac{3}{8} = \frac{7}{8}$
$\frac{4}{4} - \frac{3}{4} =$	$\frac{7}{9} - \frac{7}{9} =$	$\frac{4}{11} - \frac{4}{11} = \boxed{}$
$\frac{6}{6} - \frac{6}{6} =$	$\frac{8}{10} + \frac{2}{10} =$	$\frac{2}{10} + \frac{3}{10} + \frac{2}{10} = \boxed{}$
$\frac{9}{10} - \frac{6}{10} =$	$\frac{4}{10} - \frac{3}{10} =$	$\frac{1}{9} + \frac{\boxed{}}{9} + \frac{\boxed{}}{9} = \frac{5}{9}$

Write the calculations in your book and solve them. Use equipment or drawings if needed.

★	★ ★	★ ★ ★ Example Answers
$\frac{2}{6} + \frac{2}{6} = \frac{4}{6}$	$\frac{4}{6} + \frac{1}{6} = \frac{5}{6}$	$\frac{\boxed{1}}{6} + \frac{2}{6} + \frac{\boxed{2}}{6} = \frac{5}{6}$
$\frac{4}{9} + \frac{1}{9} = \frac{5}{9}$	$\frac{4}{10} - \frac{1}{10} = \frac{3}{10}$	$\frac{\boxed{0}}{10} + \frac{7}{10} + \frac{\boxed{1}}{10} = \frac{8}{10}$
$\frac{5}{7} + \frac{2}{7} = \frac{7}{7}$	$\frac{9}{11} - \frac{4}{11} = \frac{5}{11}$	$\frac{13}{15} - \frac{6}{15} = \frac{\boxed{7}}{15}$
$\frac{1}{3} + \frac{1}{3} = \frac{2}{3}$	$\frac{1}{6} + \frac{2}{6} + \frac{3}{6} = \frac{6}{6}$	$\frac{\boxed{12}}{12} - \frac{\boxed{6}}{12} = \frac{6}{12}$
$\frac{2}{8} + \frac{4}{8} = \frac{6}{8}$	$\frac{4}{10} + \frac{3}{10} + \frac{2}{10} = \frac{9}{10}$	$\frac{3}{9} + \frac{3}{9} = \frac{\boxed{6}}{9}$
$\frac{4}{10} - \frac{1}{10} = \frac{3}{10}$	$\frac{11}{12} - \frac{8}{12} = \frac{3}{12}$	$\frac{\boxed{10}}{15} - \frac{\boxed{4}}{15} = \frac{6}{15}$
$\frac{7}{9} - \frac{6}{9} = \frac{1}{9}$	$\frac{7}{7} - \frac{7}{7} = \frac{0}{7}$	$\frac{1}{8} + \frac{\boxed{3}}{8} + \frac{3}{8} = \frac{7}{8}$
$\frac{4}{4} - \frac{3}{4} = \frac{1}{4}$	$\frac{7}{9} - \frac{7}{9} = \frac{0}{9}$	$\frac{4}{11} - \frac{4}{11} = \frac{\boxed{0}}{11}$
$\frac{6}{6} - \frac{6}{6} = \frac{0}{6}$	$\frac{8}{10} + \frac{2}{10} = \frac{10}{10}$	$\frac{2}{10} + \frac{3}{10} + \frac{2}{10} = \frac{\boxed{7}}{10}$
$\frac{9}{10} - \frac{6}{10} = \frac{3}{10}$	$\frac{4}{10} - \frac{3}{10} = \frac{1}{10}$	$\frac{1}{9} + \frac{\boxed{3}}{9} + \frac{\boxed{1}}{9} = \frac{5}{9}$

Using given cards once, complete the calculations.

2

7

4

5

1

9

8

$$\frac{\square}{10} - \frac{\square}{10} = \frac{\square}{10}$$

$$\frac{\square}{11} + \frac{\square}{11} - \frac{\square}{11} = \frac{\square}{11}$$

How many fraction addition and subtraction calculations can you make from this model?

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Using given cards once, complete the calculations.

2

7

4

5

1

9

8

$$\frac{\square}{10} - \frac{\square}{10} = \frac{\square}{10}$$

$$\frac{\square}{11} + \frac{\square}{11} - \frac{\square}{11} = \frac{\square}{11}$$

How many fraction addition and subtraction calculations can you make from this model?

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Example answer

Using given cards once, complete the calculations.

2

7

4

5

1

9

8

$$\frac{9}{10} - \frac{7}{10} = \frac{2}{10}$$

$$\frac{5}{11} + \frac{4}{11} - \frac{1}{11} = \frac{8}{11}$$

How many fraction addition and subtraction calculations can you make from this model?

There are lots of calculations children could record. Children may even record calculations where there are more than 2 fractions e.g.

$$\frac{3}{9} + \frac{2}{9} + \frac{3}{9} = \frac{8}{9}$$

Children may possibly see that the blue is representing one fraction and the white – another.

Example answer

Using given cards once, complete the calculations.

2

7

4

5

1

9

8

$$\frac{9}{10} - \frac{7}{10} = \frac{2}{10}$$

$$\frac{5}{11} + \frac{4}{11} - \frac{1}{11} = \frac{8}{11}$$

How many fraction addition and subtraction calculations can you make from this model?

There are lots of calculations children could record. Children may even record calculations where there are more than 2 fractions e.g.

$$\frac{3}{9} + \frac{2}{9} + \frac{3}{9} = \frac{8}{9}$$

Children may possibly see that the blue is representing one fraction and the white – another.