Mental Math

$12\frac{1}{2}$ – How many pieces? $\frac{25}{2}$

$\frac{17}{3}$ → how many wholes

$5\frac{2}{3}$

Estimate!

$\frac{10}{5} - \frac{4}{6}$

$2 - \frac{1}{2} = 1\frac{1}{2}$

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Homework!

Let's correct!

$\frac{3}{8} - \frac{1}{4}$

$\frac{7}{9} - \frac{1}{3} = \frac{4}{9}$

$= \frac{1}{8}$

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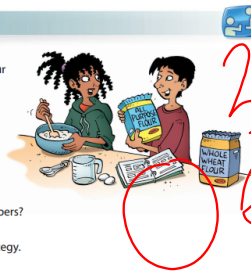
Adding Mixed Numbers

Explore

Use any materials you want.
A recipe calls for $1\frac{1}{3}$ cups of all-purpose flour and $\frac{5}{6}$ cup of whole-wheat flour.
How much flour is needed altogether?
How can you find out?
Show your work.



$2\frac{1}{6}$

Reflect & Share

Describe your strategy.
Will your strategy work with all mixed numbers?
Test it with $2\frac{1}{3} + \frac{3}{4}$.
Use models or diagrams to justify your strategy.

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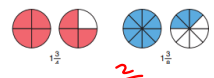
Connect

Use fraction circles to add: $1\frac{3}{4} + 1\frac{3}{8}$

Use fraction circles to model $1\frac{3}{4}$ and $1\frac{3}{8}$.



$\frac{2}{8}$

Use eighths to fill the fraction circle for $\frac{2}{4}$.

1 whole and 1 whole and 1 eighth equals 3 wholes and 1 eighth.
So, $1\frac{3}{4} + 1\frac{3}{8} = 3\frac{1}{8}$

$3\frac{1}{8}$

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Example

Add: $\frac{1}{3} + 1\frac{5}{6}$

$= 2\frac{1}{6}$

$1\frac{1}{3} + \frac{5}{6}$ Adding Mixed Numbers

We can use different strategies to solve these types of problems

Strategy 1

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

$\left(\frac{1}{3} + \frac{5}{6}\right) + 1$

$\frac{2}{6} + \frac{5}{6} = \frac{7}{6} = 1\frac{1}{6} + 1 = 2\frac{1}{6}$

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Example

Add: $\frac{1}{3} + 1\frac{5}{6}$

Strategy 2

Turn → Improper

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

$2\left(\frac{1}{3}\right) + \frac{11}{6} = \frac{2}{6} + \frac{11}{6} = \frac{13}{6} = 2\frac{1}{6}$

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

$\left(\frac{1}{4} + \frac{1}{2}\right) + 2 + 3$

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

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

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$1\frac{1}{2} + \frac{3}{4}$ } $2\frac{1}{6} + \frac{2}{4}$

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

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3 - 2/3 or 12 - 1 and 1/4

$2 - \frac{3}{4}$

$\frac{8}{4} - \frac{3}{4} = \frac{5}{4} = 1\frac{1}{4}$

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

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

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For each pair of numbers, find a common denominator. Then add.

a) $3\frac{1}{3} + \frac{1}{4}$ b) $\frac{1}{2} + 1\frac{9}{10}$ c) $\frac{3}{4} + 2\frac{3}{5}$ d) $\frac{3}{7} + 2\frac{1}{2}$

e) $4\frac{7}{8} + 1\frac{2}{3}$ f) $2\frac{3}{5} + 2\frac{2}{3}$ g) $5\frac{2}{5} + 1\frac{7}{8}$ h) $3\frac{5}{6} + 2\frac{1}{4}$

a) $3\frac{1}{3} + \frac{1}{4}$ b) $\frac{1}{2} + 1\frac{9}{10}$

c) $\frac{3}{4} + 2\frac{3}{5}$ d) $\frac{3}{5} + 1\frac{1}{2}$

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Practice!

Textbook

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If done, challenge yourself to take it further!!

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