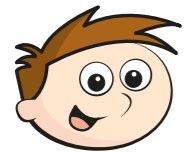# Add mixed numbers

1   Teddy and Mo are adding mixed numbers.

Teddy: $3\frac{1}{4} + 2\frac{5}{8} = 5 + \frac{7}{8} = 5\frac{7}{8}$

Teddy

Mo: $3\frac{1}{4} + 2\frac{5}{8} = \frac{26}{8} + \frac{21}{8} = \frac{47}{8} = 5\frac{7}{8}$

Mo

Whose method do you prefer? __Various__

Talk about it with a partner.

2   Complete the calculations.

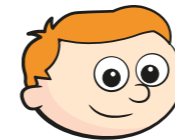a) $1\frac{2}{5} + 2\frac{3}{10} = \boxed{3\frac{7}{10}}$ b) $2\frac{2}{5} + 2\frac{3}{10} = \boxed{4\frac{7}{10}}$

c) $1\frac{3}{4} + 3\frac{3}{20} = \boxed{4\frac{9}{10}}$ e) $4\frac{1}{4} + 2\frac{11}{16} = \boxed{6\frac{15}{16}}$

d) $1\frac{3}{16} + 4\frac{3}{4} = \boxed{5\frac{15}{16}}$ f) $1\frac{4}{15} + 3\frac{2}{3} = \boxed{4\frac{14}{15}}$

3

Ron: $2\frac{3}{5} + 1\frac{7}{10} = 3 + \frac{13}{10} = 3\frac{13}{10}$

How can Ron improve his answer?

$\frac{13}{10} = 1\frac{3}{10}$ so $3\frac{13}{10} = 4\frac{3}{10}$
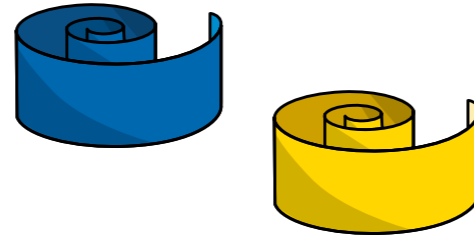
4   Complete the additions.

a) $2\frac{3}{4} + 3\frac{5}{12} = \boxed{6\frac{1}{6}}$ b) $3\frac{2}{3} + 2\frac{7}{12} = \boxed{6\frac{1}{4}}$

c) $5\frac{1}{6} + 3\frac{11}{12} = \boxed{9\frac{1}{12}}$

d) $6\frac{7}{15} + 3\frac{3}{5} = \boxed{10\frac{1}{15}}$
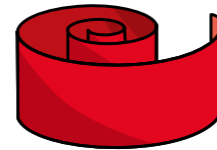
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5 A blue ribbon is $2\frac{4}{9}$ metres long.

A yellow ribbon is $3\frac{2}{3}$ metres long.

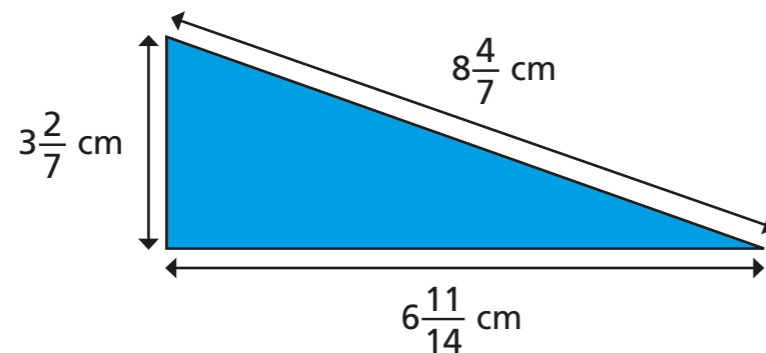**a)** What is the total length of the blue and yellow ribbon?

$\boxed{6\frac{1}{9}}$ m

b) A red ribbon is $1\frac{5}{18}$ metres longer than the yellow ribbon.

How long is the red ribbon?

$\boxed{4\frac{17}{18}}$ m

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6 Calculate the perimeter of the triangle.

$8\frac{4}{7}$ cm

$3\frac{2}{7}$ cm

$6\frac{11}{14}$ cm

$\boxed{18\frac{9}{14}}$ cm

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7 Complete the calculation in three different ways.

e.g.

$\boxed{1}\,\frac{\boxed{1}}{5} + \boxed{5}\,\frac{\boxed{8}}{15} = 6 + \frac{11}{15} = \boxed{6\frac{11}{15}}$

$\boxed{3}\,\frac{\boxed{2}}{5} + \boxed{3}\,\frac{\boxed{5}}{15} = 6 + \frac{11}{15} = \boxed{6\frac{11}{15}}$

$\boxed{1}\,\frac{\boxed{4}}{5} + \boxed{4}\,\frac{\boxed{14}}{15} = 6 + \frac{11}{15} = \boxed{6\frac{11}{15}}$

Compare answers with a partner.

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8 Here are some number cards.

$3\frac{1}{6}$ $2\frac{11}{12}$ $2\frac{5}{6}$ $3\frac{5}{6}$ $4\frac{1}{12}$ $4\frac{1}{3}$

a) What is the greatest total you can make with two cards?

$\boxed{8\frac{5}{12}}$

b) What is the smallest total you can make with two cards?

$\boxed{5\frac{3}{4}}$