

**Answer ALL TWENTY THREE questions.**

**Write your answers in the spaces provided.**

**You must write down all the stages in your working.**

**1** Show that  $1\frac{2}{3} + 2\frac{3}{4} = 4\frac{5}{12}$

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**(Total for Question 1 is 3 marks)**

2 Show that  $3\frac{3}{4} \times \frac{7}{9} = 2\frac{11}{12}$

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(Total for Question 2 is 3 marks)

3

Show that  $5\frac{1}{3} - 2\frac{6}{7} = 2\frac{10}{21}$

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(Total for Question 3 is 3 marks)

**4**

Show that  $3\frac{1}{5} \times 1\frac{5}{6} = 5\frac{13}{15}$

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(Total for Question 4 is 3 marks)

**5**

Show that  $3\frac{1}{5} \times 2\frac{5}{8} = 8\frac{2}{5}$

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(Total for Question 5 is 3 marks)

**6**

Show that  $2\frac{4}{7} \div 1\frac{1}{8} = 2\frac{2}{7}$

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**(Total for Question 2 is 3 marks)**

**7**

Show that  $5\frac{2}{3} - 2\frac{3}{4} = 2\frac{11}{12}$

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**(Total for Question 2 is 3 marks)**

**8**

Show that  $3\frac{4}{7} - 1\frac{5}{8} = 1\frac{53}{56}$

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**(Total for Question 4 is 3 marks)**

9 Show that  $4\frac{2}{3} + 3\frac{4}{5} = 8\frac{7}{15}$

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**(Total for Question 9 is 3 marks)**

**10**

Show that  $6\frac{3}{4} \div 2\frac{4}{7} = 2\frac{5}{8}$

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**(Total for Question 10 is 3 marks)**

**11** Show that  $2\frac{2}{3} + 3\frac{3}{4} = 6\frac{5}{12}$

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**(Total for Question 11 is 3 marks)**



**12** There are 60 children in a club.

In the club, the ratio of the number of girls to the number of boys is 3 : 1

$\frac{3}{5}$  of the girls play a musical instrument.

$\frac{4}{5}$  of the boys play a musical instrument.

What fraction of the 60 children play a musical instrument?

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**(Total for Question 12 is 4 marks)**

**13** Each month Edna spends all her income on rent, on travel and on other living expenses.

She spends  $\frac{1}{3}$  of her income on rent.

She spends  $\frac{1}{5}$  of her income on travel.

She spends \$420 of her income on other living expenses.

Work out her income each month.

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(Total for Question 13 is 4 marks)

**14**

Express  $\frac{5}{3} - \frac{x+2}{2x}$  as a single fraction in its simplest terms.

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**(Total for Question 14 is 3 marks)**