

Linear Equations with Fractions

For AQA GCSE Mathematics (8300) • Higher tier

Name _____

Total marks: **25**

Answer **all** questions in the spaces provided. Show your working: marks are given for correct method.

1 Solve

(a) $\frac{x+4}{3} = 5$

[2 marks]

Answer $x =$ _____

(b) $\frac{2x}{5} - 1 = 7$

[2 marks]

Answer $x =$ _____

2 Solve $\frac{x}{3} + \frac{x}{4} = 14$

[3 marks]

Answer $x =$ _____

3 Solve $\frac{3x-2}{4} = \frac{x+5}{3}$

[3 marks]

Answer $x =$ _____

4 Solve $\frac{x+3}{2} - \frac{x-1}{3} = 4$

[3 marks]

Answer $x =$ _____

5 Solve $\frac{5x+1}{3} + 2 = \frac{2x-1}{2}$

[4 marks]

Answer $x =$ _____

6 Solve $\frac{3x-1}{4} - \frac{x-5}{6} = \frac{x}{2}$

[4 marks]

Answer $x =$ _____

- 7 Beth's age is x years.
Her brother is 4 years older than her.
Half of Beth's age plus a third of her brother's age is 13
Work out Beth's age.

[4 marks]

Answer _____ years