Name:

Exam Style Questions

Solving Equations: Fractional (advanced)

Corbettmaths

Equipment needed: Pen, Calculator

Guidance

1. Read each question carefully before you begin answering it.
2. Check your answers seem right.
3. Always show your workings

Video Tutorial

www.corbettmaths.com/contents

Video 111a

Answers and Video Solutions

1. Solve

$$\frac{2}{x}+\frac{2}{x+3}=1$$

.....

(5)

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2. Solve

$$\frac{1}{x+3}+\frac{6}{x+7}=1$$

.....

(5)

3. Solve

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

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(5)

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4. Solve

$$\frac{7}{x}-\frac{2}{x+2}=3$$

.....

(5)

5. Solve

$$\frac{7}{x+2}+\frac{10}{2x-5}=3$$

.....

(5)

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6. Solve, giving your answers to 1 decimal place.

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

.....

(6)

7. Solve, giving your answers to 2 decimal places.

$$\frac{5}{x+1}+\frac{3}{x+4}=\frac{2}{3}$$

.....

(6)

8. Solve

$$\frac{1}{x+1}+\frac{2}{x}=5$$

Give your answer in the form $\frac{p\pm\sqrt{q}}{5}$ where p and q are integers.

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(6)

9. Solve

$$\frac{9}{4x-1} = \frac{4}{7} + \frac{3}{x+2}$$

.....

(6)

10. Solve, giving your answers to 1 decimal place.

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

.....

(6)

11. Solve, giving your answers to 1 decimal place.

$$\frac{2x-1}{x} - \frac{4}{x+2} = 5$$

.....

(6)

12. Solve, giving your answers to 2 decimal places.

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

.....

(6)