Name:

Exam Style Questions

Equations involving fractions

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 111

Answers and Video Solutions

1. Solve

$$\frac{x}{4} = 8$$

x = ...

(1)

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2. Solve

$$\frac{y}{5} = 5$$

y = ...

(1)

---

3. Solve

$$\frac{w+3}{4} = 2$$

w = ...

(2)

4. Solve

$$\frac{2a}{3} = 8$$

a = ...

(2)

---

5. Solve the equation

$$\frac{3w}{4} = \frac{1}{2}$$

w = ...

(2)

---

6. Solve the equation

$$\frac{2w+1}{5} = \frac{3}{8}$$

w = ...

(2)

7. Solve

$$\frac{10x - 1}{7} = 8$$

x = ...

(3)

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8. Solve

$$\frac{7c + 4}{8} = 11$$

c = ...

(3)

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9. Solve

$$\frac{53 - 2x}{5} = 7$$

x = ...

(3)

10. Solve

$$\frac{11 - w}{5} = 3 + w$$

w = ...

(3)

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11. Solve

$$\frac{9(4x - 1)}{2x} = 15$$

x = ...

(3)

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12. Solve

$$\frac{x - 8}{3} = \frac{7x}{9}$$

x = ...

(3)

13. Solve

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

You must show your working.

w = ...

(4)

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14. Solve

$$\frac{2x-6}{2}+\frac{x+1}{5}=8$$

You must show your working.

x = ...

(4)

15. Solve

$$\frac{m+6}{2} - \frac{2m-2}{3} = 3$$

You must show your working.

m = ...

(4)

16. Solve

$$\frac{4k-5}{7} - \frac{k+2}{2} = -1$$

You must show your working.

k = ...

(4)

17. Solve

$$\frac{10x-3}{3}+\frac{5x+2}{4}=5$$

You must show your working.

x = ...

(4)

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18. Solve

$$\frac{w-4}{3}+\frac{w+1}{6}=\frac{7}{2}$$

w = ...

(4)

19. Solve

$$\frac{3y-1}{6}+\frac{4y+3}{12}=\frac{7}{3}$$

y = ...

(4)

20. Solve

$$\frac{3x+1}{5}+\frac{x-6}{4}+\frac{x}{10}=12$$

x = ...

(5)

20. Solve

$$\frac{2a-5}{4} - \frac{1-a}{3} = \frac{3a+1}{6}$$

a = ...

(5)