Name:

Exam Style Questions

Advanced Changing the Subject

Corbettmaths

Equipment needed: Calculator, pen

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 8

Answers and Video Solutions

1. Rearrange $y = a - 7c^3$ to make *c* the subject

.....

(2)

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2. Make w the subject of the formula $4(g - w) = 5w - 3$

w = ...

(3)

3. $4(2a + p) = c + p + a$

Express a in terms of c and p.

a = ...

(3)

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4. Make y the subject of the formula $c = w - 4ay^3$

y = ...

(3)

5. Make a the subject of the formula

$$s = ut + \frac{1}{2}at^2$$

a = ...

(3)

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6. Make v the subject of the formula.

$$s = \frac{1}{2}(u + v)t$$

v = ...

(3)

7. Make a the subject of $14a + 6w = ac + 8w$

a = ...

(3)

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8. Make c the subject of

$$w = \frac{3c + 5}{c}$$

c = ...

(3)

9. Make x the subject of

$$y = \frac{x+3}{x-8}$$

x = ...

(4)

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10. Rearrange $y + 3 = x(y + 2)$ to make y the subject of the formula.

y = ...

(4)

11. Make w the subject of the formula

$$g = \frac{w}{w - 5}$$

w = ...

(3)

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12. Make x the subject of the formula

$$P = 4x + \frac{\pi x}{5}$$

x = ...

(3)

13. Make p the subject of the formula $p - 2 = \pi(y - 3p)$

p = ...

(4)

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14. Make m the subject of the formula $E = mgh + \frac{1}{4}mv^2$

m = ...

(3)

15. Make b the subject of

$$\sqrt{\frac{3ab}{a-b}} = 4$$

b = ...

(3)

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16. Make a the subject of

$$\frac{x-4a}{a+x} = y$$

a = ...

(4)

17. Express y in terms of c and p.

$$p = \frac{2(c - y)}{3c}$$

y = ...

(3)

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18. Make m the subject of

$$\pi x = \frac{m - 2}{m + 8}$$

m = ...

(4)

19. Express b in terms of a

$$a = \frac{2(3-b)}{b+1}$$

b = ...

(3)

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20. Make m the subject of

$$\frac{4m+1}{c} = \frac{m-1}{a}$$

m = ...

(4)

21. Make a the subject of the formula.

$$\frac{1}{a} - \frac{1}{b} = \frac{1}{c}$$

a = ...

(3)

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22. Rearrange $\frac{p}{qr} = 3 + \frac{1}{q}$ to make r the subject

r = ...

(4)

23. Make x the subject of

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

x = ...

(4)