



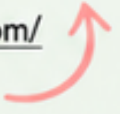
JP Maths

Revision



Attempt the paper
before watching the
solutions!

[https://www.youtube.com/
@JPMathsRevision](https://www.youtube.com/@JPMathsRevision)



FOUNDATION / HIGHER TIER

Changing the Subject



INSTRUCTIONS

- Use **black ink** or ball-point pen.
- **Fill in the boxes** at the top of this page with your name, centre number and candidate number.
- Answer **all** questions.
- Answer the questions in the spaces provided – *there may be more space than you need.*
- You must **show all your working.**
- Diagrams are **NOT** accurately drawn, unless otherwise indicated.
- If your calculator does not have a π button, take the value of π to be 3.142 unless the question instructs otherwise.



INFORMATION

- The marks for **each** question are shown in brackets– *use this as a guide as to how much time to spend on each question.*



ADVICE

- Read each question carefully before you start to answer it.
- Keep an eye on the time.
- Try to answer every question.
- Check your answers if you have time at the end.



You've got this! ❤️

1. Make x the subject:

$$x + 7 = y$$

.....
(Total for Question 1 is 1 mark)

2. Make a the subject:

$$b = a - 4$$

.....
(Total for Question 2 is 1 mark)

3. Make m the subject:

$$n = 3m$$

.....
(Total for Question 3 is 1 mark)

4. Make p the subject:

$$q = \frac{p}{5}$$

.....
(Total for Question 4 is 1 mark)

5. Make x the subject:

$$y = x + 12$$

.....
(Total for Question 5 is 1 mark)

6. Make x the subject:

$$y = 2x + 5$$

.....
(Total for Question 6 is 2 marks)

7. Make a the subject:

$$b = 4a - 7$$

.....
(Total for Question 7 is 2 marks)

8. Make m the subject:

$$n = \frac{m}{3} + 8$$

.....
(Total for Question 8 is 2 marks)

9. Make p the subject:

$$q = 6 - 2p$$

.....
(Total for Question 9 is 2 marks)

10. Make x the subject:

$$y = \frac{x + 4}{3}$$

.....
(Total for Question 10 is 2 marks)

11. Make x the subject:

$$y = \frac{x}{4} - 3$$

.....
(Total for Question 11 is 2 marks)

12. Make a the subject:

$$b = \frac{a + 7}{5}$$

.....
(Total for Question 12 is 2 marks)

13. Make m the subject:

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

.....
(Total for Question 13 is 2 marks)

14. Make x the subject:

$$y = \frac{5 - x}{2}$$

.....
(Total for Question 14 is 2 marks)

15. Make p the subject:

$$q = \frac{3p + 1}{4}$$

.....
(Total for Question 15 is 2 marks)

16. Make x the subject:

$$y = x + a$$

.....
(Total for Question 16 is 2 marks)

17. Make x the subject:

$$y = 3x + b$$

.....
(Total for Question 17 is 2 marks)

18. Make x the subject:

$$y = ax + 4$$

.....
(Total for Question 18 is 2 marks)

19. Make x the subject:

$$y = 5x - c$$

.....
(Total for Question 19 is 2 marks)

20. Make x the subject:

$$y = \frac{x + a}{3}$$

.....
(Total for Question 20 is 2 marks)

21. Make x the subject:

$$y = ax + b$$

.....
(Total for Question 21 is 2 marks)

22. Make x the subject:

$$y = \frac{x + b}{a}$$

.....
(Total for Question 22 is 2 marks)

23. Make x the subject:

$$y = \frac{a}{x}$$

.....
(Total for Question 23 is 2 marks)

24. Make x the subject:

$$y = \frac{ax + b}{c}$$

.....
(Total for Question 24 is 3 marks)

25. Make r the subject:

$$A = \pi r^2$$

.....
(Total for Question 25 is 2 marks)

26. Make h the subject:

$$V = \pi r^2 h$$

.....
(Total for Question 26 is 3 marks)

27. Make x the subject:

$$y = \sqrt{x + 5}$$

.....
(Total for Question 27 is 2 marks)

28. Make r the subject:

$$V = \frac{4}{3} \pi r^3$$

.....
(Total for Question 28 is 3 marks)

29. Make a the subject:

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

.....
(Total for Question 29 is 3 marks)

30. Make m the subject:

$$E = mc^2$$

.....
(Total for Question 30 is 2 marks)
