

Name: \_\_\_\_\_

Exam Style Questions

## Solving Equations



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](http://www.corbettmaths.com/contents)

Video 110

Video 113



Answers and Video Solutions



1. Solve  $4g = 12$



$g = \dots\dots\dots$   
(1)

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2. Solve  $x - 3 = 8$



$x = \dots\dots\dots$   
(1)

---

3. Solve  $x + 5 = 7$



$x = \dots\dots\dots$   
(1)

---

4. Solve  $x + 7 = 4$



$x = \dots\dots\dots$   
(1)

---

5. Solve  $25 = 8 + y$



$y = \dots\dots\dots$   
(1)

6. Solve



$$\frac{x}{4} = 7$$

x = .....  
(1)

---

7. Solve



$$\frac{x}{2} = 10$$

x = .....  
(1)

---

8. Solve



$$5x = 90$$

x = .....  
(1)

---

9. Solve



$$\frac{m}{5} = 3.7$$

m = .....  
(1)

10. Solve  $3x = -24$



$x = \dots\dots\dots$   
(1)

---

11. Solve  $2w - 1 = 13$



$w = \dots\dots\dots$   
(2)

---

12. Solve  $3y + 4 = 22$



$y = \dots\dots\dots$   
(2)

---

13. Solve  $9c - 4 = 68$



$c = \dots\dots\dots$   
(2)

14. Solve  $5y + y = 60$



y = .....  
(2)

15. Solve



$$\frac{c}{2} + 3 = 10$$

$$\begin{aligned}\frac{c}{2} + 3 &= 10 - 3 \\ 2 \times \frac{c}{2} &= 7 \times 2 \\ c &= 14\end{aligned}$$

c = .....  
(2)

16. Solve  $10y - 3 = 24$



y = .....  
(2)

17. Solve  $8w + 20 = 4$



w = .....  
(2)

18. Solve  $12 - y = 5$



$y = \dots\dots\dots$   
(1)

---

19. Solve  $4y - 5 = 18$



$y = \dots\dots\dots$   
(2)

---

20. Solve  $18 - 4a = 2$



$a = \dots\dots\dots$   
(2)

---

21. Solve  $\frac{3x}{4} = 9$



$x = \dots\dots\dots$   
(2)

22. Solve  $2e - 8 = 14$



$e = \dots\dots\dots$   
(2)

---

23. Solve



$$\frac{w + 3}{4} = 6$$

$w = \dots\dots\dots$   
(2)

---

24. Solve  $3(y + 4) = 24$



$y = \dots\dots\dots$   
(3)

25. Solve  $3(4w - 1) = 39$



$w = \dots\dots\dots$   
(3)

---

26. Solve  $5(2y + 7) = 20$



$y = \dots\dots\dots$   
(3)

---

27. Solve  $\frac{2x - 9}{7} = 4$



$x = \dots\dots\dots$   
(3)



28. Solve  $7w + 3 = 5w + 9$



$w = \dots\dots\dots$   
(3)

---

29. Solve  $9x - 2 = 3x + 70$



$x = \dots\dots\dots$   
(3)

---

30. Solve  $8x + 1 = 6 - 2x$



$x = \dots\dots\dots$   
(3)

31. Solve  $12x + 3 = 7x - 4$



$x = \dots\dots\dots$   
**(3)**

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32. Solve  $7x = 61.6 - 4x$



$x = \dots\dots\dots$   
**(2)**

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33. Solve  $7y + 6 = 5(y - 2)$



$y = \dots\dots\dots$   
**(3)**

34. Solve  $4(2x - 5) = 5x + 4$



x = .....  
(3)

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35. Solve  $2(2x + 1) = 3(x - 4)$



x = .....  
(4)

---

36. Solve  $5(3c - 2) - 7c = 40 - 2c$



c = .....  
(4)

37. Solve  $\frac{7-w}{3} = 3w - 4$



$w = \dots\dots\dots$   
(3)

---

38. Solve  $\frac{y+7}{y} = 3$



$y = \dots\dots\dots$   
(3)

39.



w	w	w	w	20
w	w	x	x	24
w	x	x	y	25
w	x	y	z	30

In the grid above, each row adds up to the number to the right.

Find the values of w, x, y and z.

w = .....

x = .....

y = .....

z = .....

(4)