

# Acumen Teach To the point

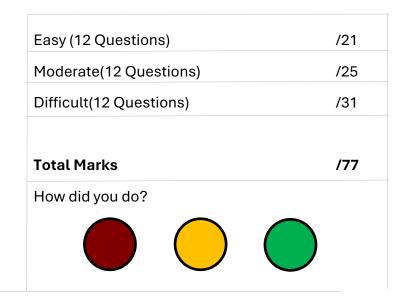
#### **Number Master-box**

Number Basics—Algebra—Logic—Statistics











## **Easy Questions**

1. Simplify the following expression: 7×8+15-9

(2 marks)

2. Solve for x: 5x-12=23

**Evaluate:** 3(4+5)-6

(3 marks)



**4. Calculate:** -8+15

(1 marks)

5. What is the result of -4\*-5

(1 marks)

6. Simplify: (-3)^2 - 7

(2 marks)

7. If you buy 3 pens at £1.20 each and 2 notebooks at £2.50 each, what is the total cost?

(2 marks)

8. You have £50. You spend £15.75 on a book and £22.30 on groceries. How much do you have left?



9.	A shirt is priced at £25. If there is a 20% discount, now much will the shirt c	ost <i>:</i>
10.	What is the value of 4^3	(2 marks)
11.	Find the HCF (Highest Common Factor) of 24 and 36.	(1 marks)
12.	Express 0.75 as a fraction in its simplest form.	(2 marks)
		(1 marks)



#### **Moderate Questions**

**13.** Solve for x: 3(x-5)=2x+6

(3 marks)

**14.** Simplify: 2×3^2-(4+5)

(2 marks)

15. Calculate: -24/6

(1 marks)

**16.** Simplify: (-18+6×3)/3



17. You have £100. You spend £30.25 on shoes and £45.50 on a jacket. How much do you have left?

(2 marks)

18. Find the total cost if you buy 4 apples at £0.80 each and 3 oranges at £1.20 each.

(2 marks)

**19. Evaluate:** (-4)^2+(-3)^3

(3 marks)

20. Find the LCM of 15 and 20.

(2 marks)

**21.** Simplify:  $(2x^2-3x+4)-(x^2+x-2)$ 

(3 marks)





(2 marks)

23. Convert 3.5 kg to grams.

(1 marks)

24. How many ways can you arrange the letters in the word "NOUN"?



### **Difficult Questions**

**25.** Solve for  $x: 2x^2-3x-2=0$ 

(4 marks)

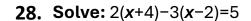
**26. Evaluate:** 3×(2^3-4)/5-3

(3 marks)

**27.** Simplify:  $(-6)2-4\times(-3)/5-(-1)$ 

(3 marks)





(3 marks)

29. Calculate the total cost if you buy 5 books at £4.25 each, with a discount of 15%.

30. Find the HCF of 48 and 180.

**31.** Simplify:  $(4x^3)-(2x^2)+(6x/2x)$ 

(2 marks)

(3 marks)



**32. Solve:**  $sqrt{3x + 4} = 7$ 

(3 marks)

33. Convert 7.25% to a fraction in its simplest form.

(2 marks)

**34.** A box contains 6 red balls, 4 blue balls, and 5 green balls. What is the probability of drawing a red or a blue ball?

(3 marks)

35. How many ways can you arrange the letters in the word "ALGEBRA"? (considering repeated letters)

(3 marks)

36. Find the cube root of 512