

# Christmas Revision Calendar



## December

1 Factorise:  
 $x^2 + 10x + 21$

2 Work out:  
 $6.34 \times 5.2$

3 Simplify:  
 $(2x^3y)^3$

4 6,10,14,16  
Write the nth term:

5 Write in standard form:  
0.00068

6 Change:  
4500mm<sup>3</sup> into cm<sup>3</sup>

7 Solve:  
 $6x + 4 = x + 17$

8 Simplify:  
 $2p^3 \times 5p^4$

9 Estimate:  
£19.65 x 385

10 Factorise:  
 $2xy + 12x^2$

11 Work out the fraction in between:  
 $\frac{1}{6}$  and  $\frac{1}{18}$

12 Solve:  
 $4x + 7 \geq 19$

13 Simplify:  
 $\frac{3x + 15}{12}$

14 Write as a product of prime factors:  
720

15 Expand and simplify:  
 $(3m + 3)(2m - 7)$

16 The nth term of a sequence is  $3n + 5$ .  
Is 108 a term in this sequence?

17 Simplify:  
 $\frac{3n+4}{3} + \frac{2n-7}{4}$

18 Find:  
63% of £180

19 Solve:  
 $3(x+5) = 2(x-9)$

20 Work out:  
 $3\frac{2}{5} \div 1\frac{3}{4}$

21 Calculate the area of a semicircle with a diameter of 32cm

22 Make t the subject:  
 $w = 3t + 11$

23 Write the value of:  
 $64^{1/2}$

24 Rudolf, Vixen and Dancer share carrots in the ratio 4:5:7. Dancer get 18 more carrots than Rudolf. How many carrots did they share in total?

And Relax for Christmas Day!!

Find somewhere quiet to work!

Identify the topics you need to work on!

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Practice in small chunks every day!

Ask for help if you are still unsure!