

# E3 Christmaths quiz

Name \_\_\_\_\_ Date \_\_\_\_\_

**Good luck and don't forget to show all your workings!**



1. Santa has 207 elves working for him all year round.  
At Christmas he employs 156 more. **How many elves does he have in total?**

2. 57 elves get swine flu. **How many are left to deal with the Christmas rush?**

3. **Round the number of elves left to the nearest 100.**



4. There are 12 reindeer. **Round this to the nearest 10.**

5. **Estimate** how many working staff Father Christmas has. **(Elves and reindeer)**

6. **Calculate** how many staff Father Christmas has. **(Elves and reindeer)**

7. 3 elves pack 87 bars of soap into gift boxes. Each elf packs the same number of soaps. **How many bars does each elf pack?**



8. An elf is checking his overtime wages. He earns £5.80 per hour plus an extra 45p per hour for overtime. **How much is this in total per hour?**

9. **Round this amount to the nearest pound.**

10. In one week the same elf works for 10 hours plus 2 hours overtime. **How much does he get paid for his week's work?**



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11. Auntie Mabel drinks  $\frac{1}{2}$  a bottle of sherry before Christmas dinner.

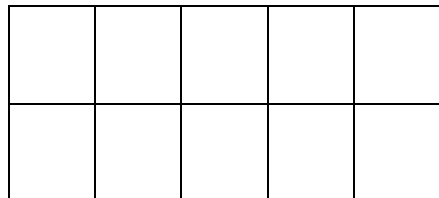
**Circle the fractions that are equivalent to  $\frac{1}{2}$ .**

$\frac{2}{4}$   $\frac{7}{12}$   $\frac{3}{6}$   $\frac{1}{6}$   $\frac{6}{12}$   $\frac{2}{3}$   $\frac{3}{4}$   $\frac{5}{10}$   $\frac{6}{16}$   $\frac{4}{8}$   $\frac{2}{6}$

12. Julie has bought a Christmas pizza. She eats  $\frac{6}{8}$  of it. **Shade in  $\frac{6}{8}$ .**



13. Little Billy eats  $\frac{8}{10}$  of his giant Dairy Milk. **Shade in  $\frac{8}{10}$ .**



14. You need to fill the car up with petrol so that you can visit all your relations and deliver their presents. The first garage you come to sells a litre of petrol for £1.34.

**You need 10 litres of petrol. How much would that cost you?**



15. Bob gets a new tape measure for Christmas. It's in centimetres and millimetres.

**How many millimetres are there in 1 centimetre?**

16. The tape is 3 metres long. **How many centimetres is that?**



17. This is Jim's present: The height is 10cm, the length is 25cm and the width is 15cm.

**Mark these on the picture.**

18. There are 2 spaces under the Christmas tree.

a) H 12cm, W 23cm, D 15cm.

b) H 12cm, W 27cm, D 16cm.

**Will Jim's present fit into either of these spaces?**



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19. These are the presents received by a class of students:

chocolates socks toiletries diary toiletries socks chocolates socks diary socks  
 toiletries socks chocolates diary chocolates socks socks diary socks  
 chocolates socks toiletries diary chocolates socks toiletries diary diary  
 toiletries chocolates chocolates socks diary diary socks socks chocolates


Record the numbers of presents in this tally chart.





Gifts	Tally	Total
Chocolates		
Socks (pairs)		
Toiletries		
Diary		

20. What was the most popular present?

21. Calculate the total number of individual socks given as presents

22. A garden centre keeps a record of how many Christmas trees they sell each day.

Each Christmas tree  = 5 Christmas trees sold.

10 <sup>th</sup> December	
11 <sup>th</sup> December	
12 <sup>th</sup> December	
13 <sup>th</sup> December	

How many trees were sold on 10<sup>th</sup> December?

23. How many more trees were sold on 13<sup>th</sup> December than 12<sup>th</sup> December?

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24. My true love sent to me:

12 drummers drumming,  
11 pipers piping,  
10 lords a leaping,  
9 ladies dancing,  
8 maids a milking,  
7 swans a swimming,  
6 geese a laying,  
5 gold rings,  
4 calling birds,  
3 French hens,  
2 turtle doves,  
1 partridge in a pear tree.



**How many presents should I get altogether?**

25. The 9 ladies dancing got lost in the post. **How many presents did I actually receive?**



**Have a wonderful Christmas break and we'll see you next year!**