

Key Stage 2 Christmas Maths Quiz

20 Year 5 / Year 6 Maths questions
for some festive fun



Christmas Maths Quiz

- 1 This table shows average number of turkeys bought at 4 different supermarkets. Which supermarket sells the lowest number of turkeys?

Tesco sells 890, 501
Sainsbury's sells 809, 550
Aldi sells 1, 368, 250
Lidl sells 809, 000

Answer

- 2 A bakery makes 737 mince pies. They sell 483 in the morning and the rest after lunch. How many do they sell after lunch?

Answer

- 3 The Christmas tree in Trafalgar Square in London is 20.54 metres tall. How tall is it in centimetres?

Answer

Christmas Maths Quiz

- 4 This table shows the number of Christmas cards sent in 5 towns in Lancashire.

Town	Cards sent
Preston	37, 548
Blackpool	65, 570
Burnley	18, 996
Lancaster	48, 018
Blackburn	54, 253


What is the combined total of the two towns which sent the most?

- 5 In the town of Chorley, they sent 12, 130 fewer Christmas cards than in Blackpool. Complete the table to show how many they sent in Chorley.

Town	Cards sent
Preston	37, 548
Blackpool	65, 570
Burnley	18, 996
Lancaster	48, 018
Blackburn	54, 253
Chorley	<hr/>

Christmas Maths Quiz

- 6 Add these fractions together to find your hidden fraction present

$$\frac{1}{8} + \frac{2}{4} + \frac{4}{16} = \frac{\boxed{}}{\boxed{}}$$


- 7 10 mince pies cost £6.90



5 mince pies and a candy cane cost £3.76



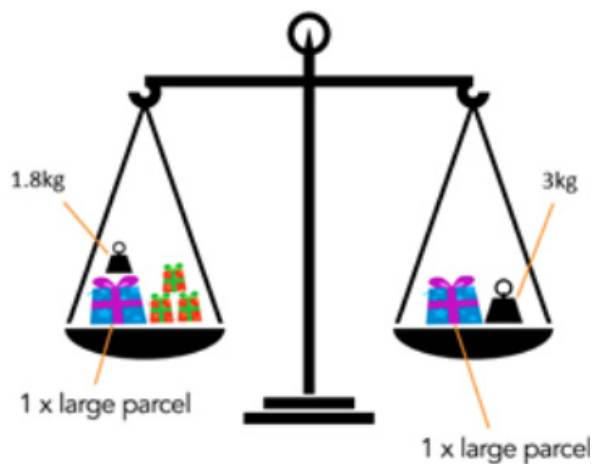
How much does one candy cane cost?

- 8 Mrs Allen buys 22 boxes of chocolates to give out at Christmas. She spends £110. How much did each box cost?

$$22 \times \boxed{} = £110$$

Christmas Maths Quiz

- 9 This diagram shows some Christmas presents on a balance scale. Each small present is identical. Calculate the weight of one small parcel, in grams.



g

- 10 In the Boxing Day sales a Lego set has been reduced by 25%. It now costs £36.45. What was the original price of the Lego set?

- 11 Work out what two different prime numbers are hidden under each Christmas present to give the answer below.

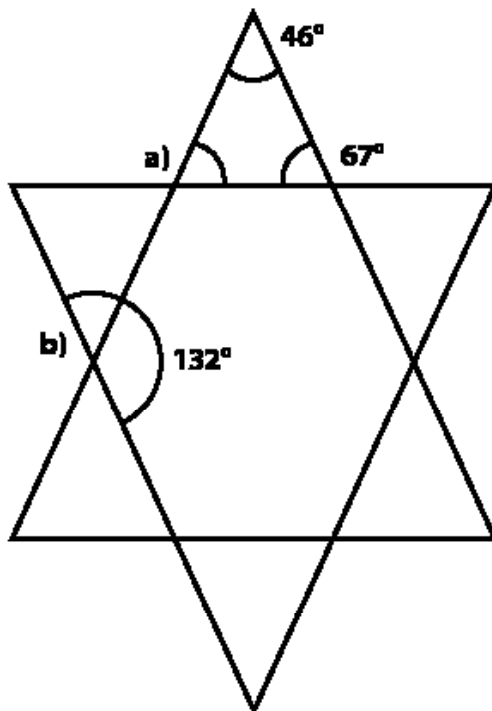
 \times  $= 187$

Christmas Maths Quiz

- 12 A Christmas present delivery service charges £8.25 to deliver parcels weighing up to 15kg then 45p for every 500g over that weight. How much would it cost to deliver a parcel weighing 20kg?

- 13 In the UK in 2015 last year we used 8 million Christmas trees. The year before, we used ten thousand fewer trees. How many did we use in 2014?

- 14 Calculate the size of angles a and b in star below



a =

b =

Christmas Maths Quiz

- 15 On Christmas Eve the temperature is -3°C . If it falls by 9 degrees, what will the new temperature be?

$^{\circ}\text{C}$

- 16 Ali is so excited on Christmas Eve that he goes to bed at ten to 6 in the evening. His analogue watch shows this time:



His older sister, Sarah, goes to bed an hour and 6 minutes later. She has a digital watch that shows the time using the 24 hour clock. What time does her watch show when she goes to bed?

17

Cara and her Mum are travelling to visit her Grandparents on Christmas eve from Manchester. They live 387.8km away in Exeter. They drive for 215.92km then they stop to get a sandwich.

After another 72.04km they have to stop to buy a last minute Christmas present for Grandad. How far do they have left before they get to Cara's Grandparents?

18

Calculate the value of the purple and blue Christmas presents:



+



+



= £12.75



+



+



= £21.05



+



+



+



= £41.40



- 19 A factory needs to make 70 632 Christmas crackers for next day delivery. The morning workers make 26 935 crackers and the afternoon workers make 27 308; how many Christmas crackers will the night-time workers need to make?



- 20 This is a recipe for making a Christmas chocolate cakes. It makes enough for 8 cakes.

- 400g Light brown sugar
- 400g plain flour
- 8 teaspoons cinnamon
- 4 tablespoons warm water

Sophie uses 1.2kg plain flour to make a giant pudding for everyone in her family. How many cakes does she make?
How much sugar would she need to make 6 cakes?

Christmas Maths Quiz - Answer Sheet

1. This table shows average number of number of turkeys bought at 5 different supermarkets. Which supermarket sells the lowest number of turkeys?

Lidl sells the lowest amount of turkeys- 809, 000

2. A bakery makes 737 mince pies. They sell 483 in the morning and the rest after lunch. How many do they sell after lunch?

254 mince pies

3. The Christmas tree in Trafalgar Square in London is 20.54 metres tall. How tall is it in centimetres?

2054 cm

4. What is the combined total of the two towns which sent the most?

119,823 from Blackpool and Blackburn

5. In the town of Chorley, they sent 12, 130 fewer Christmas cards than in Blackpool. Complete the table to show how many they sent in Chorley.

Chorley sent 53,440 Christmas cards

6. Add these fractions together to find what number is hidden in each present

$$\frac{7}{8} \text{ or } \frac{14}{16}$$

7. How much does one candy cane cost?

One candy cane costs 31p

8. Mrs Allen buys 22 boxes of chocolates to give out at Christmas. She spends £110. How much did each box cost?

Each box costs £5

9. This diagram shows some Christmas presents on a balance scale. Each small present is identical. The large parcels weight the same. Calculate the weight of one small parcel, in grams.

One small parcel weighs 400g

Christmas Maths Quiz - Answer Sheet

10. In the Boxing Day sales a Lego set has been reduced by 25%. It now costs £36.45. What was the original price of the Lego set?

The original price of the Lego set was £48.60

11. Work out what two different prime numbers are hidden under each Christmas present to give the answer below.

11 and 17

12. A Christmas Present delivery service charges £8.25 to deliver parcels weighing up to 15kg then 45p for every 500g over that weight. How much would it cost to deliver a parcel weighing 20kg?

It would cost £12.75

13. In the UK in 2015 last year we used 8 million Christmas trees. The year before, we used ten thousand fewer trees. How many did we use in 2014?

We used 7 990 000

14. Calculate the size of angles a and b in star

**The size of angle a is 67°
The size of angle b is 48°**

15. On Christmas Eve the temperature is -3°C . If it falls by 9 degrees, what will the new temperature be?

The new temperature will be -12°

16. What time does her watch show when she goes to bed?

Her watch shows 18:56

17. How far do they have left before they get to Cara's Grandparents?

They have 99.84km to go before they get to Cara's Grandparents

18. Calculate the value of the purple and blue Christmas presents:

The red present is £4.25, the purple present is £8.40 and the blue present is £11

Christmas Maths Quiz - Answer Sheet

19. How many Christmas crackers will the night-time workers need to make?

The night-time workers will need to make 16 389 Christmas crackers

20. Sophie uses 1.2kg plain flour to make a giant pudding for everyone in her family. How many cakes does she make? How much sugar would she need to make 6 cakes?

She makes 24 cakes

She would need 300g of sugar