

- 1. Solve these problems in your head.
- a) If a present in a cube shaped box has one side measuring 5cm, how much wrapping paper would be needed to cover the area of the whole cube?
- b) Presents cost £15.99, £32.99 and 24.99. What is the total cost of the three presents?

Christmas Mental Maths

- 2. Solve these problems in your head.
- a) Dave is making mince pies, which of these amounts is closest to 120g?

120.005g, 119.599g, 120.100g, 119.900g

b) If the Christmas temperature in The Gambia is 31°C but it is -42°C in Russia, what is the difference in temperatures between these two countries?



Christmas Mental Maths

- 3. Solve these problems in your head.
- a) The restaurant bill for the family pre-Christmas meal comes to £135.75. They need to divide it by 3, what do they pay each?
- b) In the restaurant the family of nine all ordered Christmas pudding which was £3.99 per person, what was the total cost for all nine people?



- 4. Solve these problems in your head.
- a) One mince pie has 289 calories. How many calories in two mince pies?
- b) How many calories in four mince pies?



Christmas Mental Maths

- 5. Solve these problems in your head.
- a) Andy's chocolate bar is the shape of a triangular prism. How many faces and vertices does it have?
- b) Jane's packet of chocolate sweets is in a hexagonal prism tube. How many faces and vertices does it have?



Christmas Mental Maths

- 6. Solve these problems in your head.
- a) A shop buys in bags of chocolate coins for 23p each. How much does the shop pay for a box of 1000 bags?
- b) If the same shop sells the bags of coins for £1 each, how much profit does it make on selling 100 bags?



Christmas Mental Maths

- 7. Solve these problems in your head.
- a) Which two pieces of Christmas cake make a whole cake?

$$\frac{1}{2}$$
 $\frac{1}{4}$ $\frac{3}{8}$ $\frac{9}{12}$ $\frac{6}{10}$

b) Which two decimal fraction pieces of mince pie make a whole one?

0.3, 0.25, 0.6, 0.5, 0.8, 0.75

- 8. Solve these problems in your head.
- a) A shop has sold 349 bags of chocolate coins out of the box of 1000, how many bags does it have left?
- b) The bakery around the corner made 500 mince pies today and has sold 123 of them, how many does it have left?



Christmas Mental Maths

- 9. Solve these problems in your head.
- a) Which numbers on an advent calendar are multiples of seven?
- b) Which numbers on an advent calendar are cube numbers?



Christmas Mental Maths

- 10. Solve these problems in your head.
- a) It took the postman from 6:30 until 15:15 to deliver yesterday's Christmas post. How long did it take?
- b) The Christmas parcel delivery lady started her delivery round at 8:15am and finished at 5:50pm, how long was her shift?

Mr Oliver

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Christmas Mental Maths

- 11. Solve these problems in your head.
- a) Adding up her savings, Susan has one hundred 50p pieces, how much did she have in total?
- b) Susan added her hundred 50p pieces to her hundred 20p pieces. How much did she have in total?



- 12. Solve these problems in your head.
- a) In the Christmas sales, a jumper had 25% off. The original price was £16, what is the sale price?
- b) Another shop has a 50% off sale, what is the sale price of the winter coat that was £119 full price?



Christmas Mental Maths Answers

- 1. α) 150cm²
- 5. a) 5 faces, 6 vertices
- b) £73.97
- b) 8 faces, 12 vertices
- 2. α) 120.005q
- 6. α) £230
- b) 73°C difference
- b) £77
- 3. α) £45.25
- 7. a) $\frac{1}{4}$ and $\frac{9}{12}$
- b) £35.91
- b) 0.25 and 0.75
- 4. a) 578 calories
- 8. a) 651 bags left
- b) 1156 calories
- b) 377 pies left

Christmas Mental Maths Answers

- 9. α) 7, 14, 21
 - b) 1 and 8
- 10. a) 8 hours 45 minutes
 - b) 9 hours 35 minutes
- 11. α) £50
 - b) £70
- 12. α) £12
 - b) £59.50