Christmas Maths Challenge

Christmas Maths Challenge



Name: _____ Class: _____ Date: _____

Read each festive word problem carefully. Show your working out in the space provided and write your final answer on the line.

Exercise 1: At the school Christmas fair, visitors guessed the total weight of a giant Christmas cake. The actual value had 4 thousands, 7 hundreds, 0 tens, and 8 ones in grams. What is the value of the digit 7 in this number?

Answer: _____

Exercise 2: The school choir sold 1,485 tickets for the afternoon Christmas concert and 1,867 tickets for the evening concert. How many tickets were sold altogether?

Answer: _____ tickets

Exercise 3: The Christmas fair stall started with 2,400 raffle tickets. By the end of the afternoon, 1,648 tickets had been sold. How many raffle tickets were left unsold?

Answer: _____ tickets

Exercise 4: Year 6 baked mince pies for the fair. They packed them into 36 presentation boxes, with exactly 6 mince pies in each box. How many mince pies did they pack in total?

Answer: _____ mince pies

Exercise 5: The kitchen baked 448 mince pies in total. If they share them equally onto 8 large serving trays, how many mince pies will be on each tray?

Answer: _____ mince pies

Exercise 6: The Christmas fair tree was decorated with 60 glass baubles. 3/5 of the baubles were shiny red. How many red baubles were on the tree?

Answer: _____ red baubles

Exercise 7: A large roll of luxury wrapping paper normally costs £8.00. At the end-of-fair sale, it is offered with a 25% discount. What is the sale price of the wrapping paper?

Answer: £_____

Exercise 8: Amelia bought a mini Christmas tree for £14.35 at the school fair. She paid using a £20 note. How much change should she receive?

Answer: £_____

Exercise 9: The school kitchen used 3.6 kg of dried fruit to bake mince pies. How many grams of dried fruit did they use?

Answer: _____ g

Exercise 10: Oliver cut 245 cm of ribbon from a spool to tie around a festive gift basket. How many metres of ribbon did he cut?

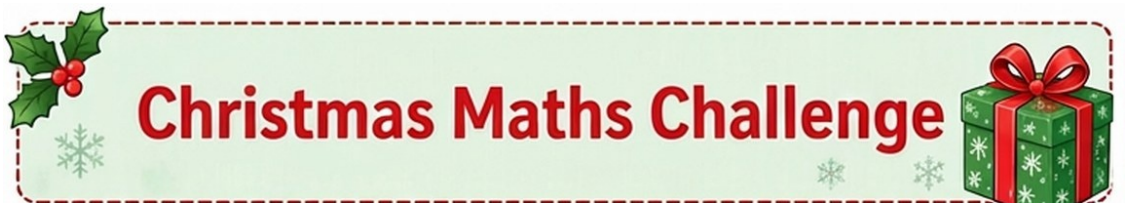
Answer: _____ m

Exercise 11: The school Christmas fair opens its doors at 15:45 and finishes 2 hours and 30 minutes later. At what time does the fair finish, in 24-hour time?

Answer: _____

Exercise 12: At 18:00, the temperature outside the Christmas tree tent was 2 °C. By midnight, the temperature had dropped by 5 °C. What was the temperature at midnight?

Answer: _____ °C



Answer Key

Exercise 1: **700** (seven hundred)

Exercise 2: **3,352** tickets

Exercise 3: **752** tickets

Exercise 4: **216** mince pies

Exercise 5: **56** mince pies

Exercise 6: **36** red baubles

Exercise 7: **£6.00**

Exercise 8: **£5.65**

Exercise 9: **3,600** g

Exercise 10: **2.45** m

Exercise 11: **18:15**

Exercise 12: **–3** °C