# QTS Mental Arithmetic Practice Test

1. There are 15 boys and 10 girls in a class. What is the ratio of girls to boys?
2. A school trip is planned. Parents are asked to pay 90% of the total cost. If the total cost is £55.50 how much must the parents pay in total?
3. School lunch break is scheduled for 1230 hrs. There are 3 classes lasting 65 minutes each prior to this lunch break. At what time do classes start?
4. A child walks 1.25km to school. If the child walks on average at 5km per hour how long does this journey take?
5. A small class of pupils achieves the following marks on a test: 6, 8, 9, 10, 12, 10, 8. What is the mean score?
6. A parent gives her son £6.00 spending money for a school day trip to France. If the exchange rate is 1.2 Euros to the £, how many Euros does the parent give her son?
7. A class is comprised of 3/5ths girls. If there are 20 children in the class, what are the numbers of boys and girls?
8. The cost for a pair of school uniform trousers is £14.99 in the local suppliers. What would be the cost for two siblings including a spare pair?
9. The afternoon break has been delayed by 40 minutes for a teacher emergency. If the usual time for afternoon break is 1425 hrs, what time is the delayed afternoon break?
10. In a spelling test of 20 questions, pupils score the following range of results: 9, 11, 5, 16, 15, 20, 18, 14, and 17. What is the median?
11. The head teacher took part in a sponsored swim for charity. Sixty-three pupils sponsored the head teacher at an average of 5p per length. If the head teacher swam 50 lengths how much money was raised in sponsorship?
12. The highest mark achieved in a test was 16 out of 25. What is this expressed as a percentage?
13. What is 1/4 multiplied by 1/3?
14. The school is selling two sets of raffle tickets. A parent buys 5 tickets at 75p each and 8 tickets at 50p each. How much change does the parent get from £10.00?
15. What is 3.2 multiplied by 50?
16. The school coach travels 45 miles to the school and then 45 miles back to the depot. How much petrol (in litres) does the coach use on a typical round trip if it uses an average of 8 miles per litre?
17. To obtain an A-grade pupils needed to get 15 or above. The scores were 10, 15, 16, 12, 20, 19, 18, 9, 15, and 14. What percentage of pupils got an A-grade?
18. What is 0.9 x 0.5?
19. A school day lasts for seven and a quarter hours. If school starts at 0900 hrs, what time does school finish (using the 24-hour clock)?
20. Out of a year group of 84 pupils, 25 percent achieved key stage 3. How many pupils does this represent?
21. One eighth of pupils at a school receive free school meals. What percentage is this?
22. Twenty of a school’s one hundred and thirty pupils are in the school choir. What fraction of pupils are in the school choir?
23. Fifteen pupils paid £9.50 for a school trip to a museum. Each pupil spent an additional £3.25 on average in the museum shop. What was the total amount spent by the fifteen pupils?
24. On an exchange trip to Germany, one pupil gave 5 Euros to his friend to spend, gave 7 Euros to his sister and spent 14 Euros himself. At an exchange rate of 1.25 Euros to the £ how much did he spend (in £)?
25. In a class of 30 pupils, 12 are boys. What fraction of the class are girls?
26. A school trip to see a play costs £5.50 for the coach travel and £12.75 for the ticket. If a parent wants to allow their two children to each have £2.00 to spend on refreshments, what will the total cost be?
27. On the last day of term school finishes 90 minutes early. If the usual finish time is 15:15 hrs, what time does school finish on the last day of term?
28. A 1.5km school walk is planned. What is this distance in miles (using the conversion 1 km : 0.6 mile)?
29. A small class of pupils achieves the following marks on a test: 14, 16, 18, 19, 20, 15, 20, and 18. What is the mean score?
30. A coffee morning to raise money for the school sells teas for 35p, coffees for 50p and biscuits for 20p. 30 teas, 40 coffees and 50 biscuits are sold. What is the total amount raised?
31. What is 0.45 x 8?
32. 30% of a class of 40 receive free school meals. How many pupils does this represent?
33. One fifth of pupils at a school walk to school. What percentage is this?
34. A school has one hundred and fifteen pupils. 20% of these take dance class on a Monday. How many pupils take dance class?
35. The return journey to school costs £2.50 by bus. How much would be saved each week by walking to school?
36. A visitor gives a class talk lasting for an hour and an quarter. If the class starts at 1230 hrs, what time does the talk finish (using the 24-hour clock)?
37. In a spelling test of 30 questions, pupils score the following range of results: 19, 21, 15, 26, 25, 30, 28, 24, and 27. What is the median?
38. What is 5/6 as a percentage?
39. What is ½ x ½?
40. The annual school fete raises £2,051.00. The book stall raises £615.30. What is this as a percentage of the total amount raised?
41. Afternoon classes last 3 hours. If afternoon classes finish at 1530 hrs, what time do afternoon classes start?
42. In a trip to the local swimming pool the teacher is required to collect £2.75 from each of her 12 pupils. Three pupils have not brought the entrance charge to the local leisure centre with them. How much money does the teacher collect?
43. In a sponsored running race four teachers raise £24.33, £19.90, £15.75 and £46.80 respectively. How much money is raised in total?
44. What is 40% of 680?
45. A school’s attendance rate drops by a tenth over a term. If the rate was 90% at the start of term, what is the attendance rate % at the end of term?
46. The school notice board measures 2 metres by 2 metres. What is the area of the school notice board?
47. A school has two hundred and twenty pupils. 55 pupils take gymnastics lessons on Saturday mornings. What % of the school pupils take gymnastics lessons?
48. As part of a lesson seventeen pupils are asked to each read aloud for 5 minutes. If the class starts at 1120 hrs, what time does the class finish?
49. A quarter of a class go to the school playing fields whilst the remainder play in the playground. If there are 28 pupils in the class, how many pupils play in the playground?
50. What is 0.54 x 3?