

## YEAR 9 MENTAL TEST

- 1) I have £3.50. I spend  $\frac{4}{5}$  of it. How much do I have left.
- 2) Mum takes her 3 daughters to Alton towers. The entrance fee is £8.99 per adult and £6.99 per child. How much does mum pay?
- 3) A roll of wire is 25m long. I cut off 13.7m. How much is left?
- 4) Last quarter a shop used 2400 units of electricity. This quarter they used 20% less. How much did they use this quarter?
- 5) Write the fraction  $\frac{3}{5}$  as a decimal.
- 6) A sky diver falls at 50m/s. How long does he take to fall 5km?
- 7) What is the weight of 200 sacks each weighing 4.5kg?
- 8) The base of a shed is 5.3m long and 2.7m wide. What is its perimeter?
- 9) A car weighs 1.7 tonnes. A car transporter carries 7 cars. The empty transporter weighs 21 tonnes. What is the weight when fully loaded?
- 10) A plane travelled 2.3 million miles in its life. 52 thousand of those miles were travelled on the ground. How many miles did it fly?
- 11) A video recorder is priced at £320 + VAT if VAT is 17.5%, what is the full price of the recorder?
- 12) How long will a motorbike take to travel 80 miles at 64mph?
- 13) 12 tins of cat food cost £4.32. How much does each tin cost?
- 14) A bottles of wine contains 700ml. How many litres are contained in a case of 12 bottles?
- 15) A plane takes off at 0845 and lands at 1926. How long is the flight?
- 16) Katya cooks a turkey weighing 27lb. The cooking time is 12 minutes per lb, and she needs it ready at 6pm. At what time should she start it cooking?
- 17) To convert a temperature from F to C, subtract 32 and then multiply by  $\frac{5}{9}$ . Convert  $95^{\circ}\text{F}$  to  $^{\circ}\text{C}$ .
- 18) Write 0.24 as a fraction in its simplest form.
- 19) Calculate 240 divided by 0.04
- 20) Calculate  $0.3^2$