

Numeracy Assessment Revision

Percentages

1. Increase £300 by 40%.
2. Vat is charged at 17.5%. A car is advertised as costing £10 800 + VAT. Find the cost of the car.
3. A baby goods shop had a sale advertising 30% off all items. Find the cost of a pram which originally cost £360.
4. A man weighed 210 lb before starting a diet. If he lost 8% of his weight, how heavy is he now?

Money

5. The exchange rate on Tuesday was £1 = 1.26 euros. Calculate how many euros I would get for:
a) £600 b) £2400 c) £98 at this rate.
6. I buy a washing machine using hire purchase. The deal I am offered means I have to pay a deposit of £65.20 and then 6 installments of £42. How much will the washing machine cost me in total?
7. There are two payment plans on offer for a mobile phone:

Plan A

Deposit £145
12 payments of £24.50

Plan B

Deposit £ 64
24 payments of £18.60

Which of these offers the cheaper deal? Justify your answer using calculations.

8. A group of 126 fans are travelling to a concert using hired vans. There are two possible sizes of van:

Large Van: 24 seats at a cost of £80 per van.

Small Van: 15 seats at a cost of £60 per van.

Which combination of vans would be the cheapest?

Speed, Distance and Time

9. Copy and complete the timetable below:

Depart	Arrive	Time Taken
11:45	13:10	
14:25		6 hours 20 mins
	19:00	8 hours 55 mins

10. A car travels at a constant speed of 56mph for half an hour. How far would it travel in this time?

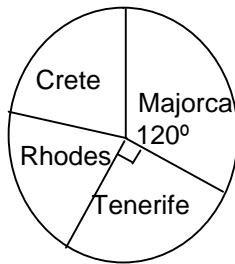
11. A bus covers a distance of 26 kilometres in 15 minutes. How fast is it travelling in kmph?
12. How far would I get if I ran for $2\frac{1}{2}$ hours at a constant speed of 10 kmph?

Ratio

13. Tom and Jerry's pocket money is divided in the ratio of 5:2. If they are given a total of £28, how much did each get?
14. To get the correct shade of paint for a room the ratio of pink to white paint is mixed in the ratio of 13:7. How much of each shade of paint would be needed to fill a 5 litre tin?

Pie Charts and Probability

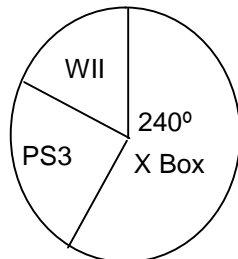
15. In a survey of favourite island holiday destinations the results below were obtained.



If 1260 people were questioned in the survey, how many of them chose

- a) Tenerife?
- b) Majorca?

16. In a survey of consoles, the results below were obtained.



If 540 people were questioned, how many of them chose the X-Box?

17. A charity launched two prize draws.

Draw 1
 35 winning tickets
 250 tickets sold

Draw 2
 250 winning tickets
 1600 tickets sold

In which draw were you most likely to win a prize? Justify your answer with calculation.

18. In an inter-house competition the results are as follows:

Hogwarts: 10 wins out of 15 matches
 Slitherin: 12 wins out of 21 matches
 Hufflepuff: 8 wins out of 14 matches

Which house has the best winning record overall? Justify your answer with calculation.