1. Calculate

a) 50% of £25.00 b) 20% of £5.25

c) 36% of 400 kg d) 12% of 75g

e) 18% of 300 rabbits f) 0.5% of 89m

1. Joe earns £650 in May. In June he earns 20% more.

How much does he earn in June?

1. Terry has earnt £56 by washing cars. Whilst shopping he spent

20% of his earnings on a CD, 5% on his lunch and paid the rest into the bank.

* 1. How much money did Terry spend on food?
  2. How much money did the CD cost?
  3. How much was paid into the bank?

4.

|  |
| --- |
| W. E. Sellem  Estates agents  Our fee is 2% of the selling price of your house |

What is the fee is charged on a house sold for £60 250?

5. When water freezes its volume increases by 8%.

a) Calculate the volume of ice formed when 75 litres of water

freezes

1. Calculate the volume of water which, when frozen, will produce 216 cubic centimetres of ice

6. In 1982 it was estimated that there were only 20 000 Minke

whales in the world. The hunting of the Minke whales was

banned in 1982. After 1982 the population increased by 45% each

year.

1. How many Minke whales were there in 1983 (1 yr after the ban)?
2. How many Minke whales were there in 1985 (3 years after the ban)? Give your answer to a suitable degree.
3. It was agreed that when the Minke whale population reached 250 000 some hunting of Minke whales would be allowed again. In what year did this happen?

7.

|  |
| --- |
| Buy a BETTERPLUG.  It will cut fridge freezer  Electricity costs by 15% |

1. The average cost of the electricity needed to run a fridge

freezer for one year is £65.

Calculate 15% of £65.

1. The price of a BETTERPLUG is £23.95.

How long will it take before the money spent on buying a BETTERPLUG is recovered by the saving in electricity?

Give your answer to an appropriate degree of accuracy.

1. David paid £4700 for his new motorcycle. Each year its value

decreased by 12%.

* 1. How much was it worth when it was one year old?
  2. How much was it worth when it was two years old?

1. Rockwood School’s results in A’Level biology are given in the

Table

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Grade | A | B | C | D | E |
| Frequency | 7 | 10 | 15 | 12 | 5 |

1. What percentage of candidates achieved a Grade A?
2. What percentage of candidates achieved Grade A, B or C?
3. What percentage of candidates didn’t achieve Grade A, B or C?
4. Janet bought a new hat in the sales for £42.00. The original price had been reduced by 25%. What was the original price?
5. A software company reduces the price of its CD-ROMs from £27.50 to £22.00. What is the percentage reduction?
6. During a rain storm a water butt increased its weight from 10.4Kg to 13.52Kg. What was the percentage increase?
7. Keith wanted a dark green carpet for his lounge. A local carpet shop had just what he was looking for – and for only £82.00+VAT. Keith had £96 in his bank account. If VAT was charged at 17½% could Keith afford the carpet?