Level 4: Homework 12

1. 13·72 + 4·7 2. 1·41 - 0·13 3. 0·08 × 2 4. 303·6 ÷ 3

5. Write down all the multiples of:-
   a. 5 between zero and 30.
   b. 7 between 10 and 50.
   c. 3 between 30 and 50.

6.
   a. A whale swims 18 km in ½ hr. How far did it go in 1 hour?
   b. A horse ran 11 km in 10 mins. How far did it run in 1 hour?
   c. A bat flew 16 km in 20 mins. How far did it fly in 1 hour?
   d. Which creature was quickest?
   e. Which creature was slowest?

7. Write down all the prime numbers from this list of numbers.

   1 7 9 5 15 14 19 49 2

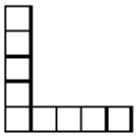
8.
   a. Write down all the factors of 24.
   b. Write down all the factors of 18.
   c. The Highest Common Factor is the biggest number in both lists. Find the Highest Common Factor.

9. Shop have to pay Value Added Tax to the government on all items they sell. They have to pay 20% of the cost of each item. How much VAT will a shop have to pay for goods that cost the following amounts?

   a. £50 b. £750 c. £825 d. £3250

[UKMT 2012 qu 12]

12. Laura wishes to cut this shape, which is made up of nine small squares, into pieces that she can then rearrange to make a 3 × 3 square.
What is the smallest number of pieces that she needs to cut the shape into so that she can do this?



A 2 B 3 C 4 D 5 E 6