1. Work out an estimate for

| | | | | | |
|---|---|---|---|---|---|
| $a$ | $8.2 \times 5.1$ | | $e$ | $4.2 \times 6.1$ | |
| $b$ | $8.1 \times 2.3$ | | $f$ | $7.2 \times 9.4$ | |
| $c$ | $9.2 \times 4.3$ | | $g$ | $6.1 \times 2.2$ | |
| $d$ | $3.4 \times 7.1$ | | $h$ | $3.4 \times 5.3$ | |

You may match with

| $3 \times 5$ | $3 \times 7$ | $4 \times 6$ | $6 \times 2$ | $7 \times 9$ | $8 \times 2$ | $8 \times 5$ | $9 \times 4$ |
|---|---|---|---|---|---|---|---|

and           12       15       16       21       24       36       40       63

2. Keith writes down the following

$$5.3 \times 6.1 = 323.3$$

Without doing the exact calculation, explain why Keith's answer cannot be correct.

..................................................................................................

..................................................................................................

3. Work out an estimate for $7.2 \times 3.3$

3. . . . . . . . . . . . . .

4. A teacher writes down this calculation

$$5.4 \times 9.1$$

and four possible answers.

      0.4914                4.914                49.14                491.4

The teacher says "One of these answers is correct"
Without doing the exact calculation, write the correct answer and explain how you know.

..................................................................................................

..................................................................................................

Answers   1a) $8 \times 5 = 40$ b) $8 \times 2 = 16$ c) $9 \times 4 = 36$ d) $3 \times 7 = 21$ e) $4 \times 6 = 24$
f) $7 \times 9 = 63$ g) $6 \times 2 = 12$ h) $3 \times 5 = 15$  2) $5 \times 6 = 30$ but $323.3 \approx 300$ not 30
or Keith's answer could be 32.33 but not 323.3   3) 21  4) $5 \times 9 = 45 \approx 49.14$