Key Facts to Learn
Learning Exercises 3 to 4

L3. Types of numbers - part 2 Square numbers - When we multiply a number by itself, we to a square number, get a squmple:
$3 \times 3=3^{2}=9$


- Here are some square numbers to learn
- Here $11 \times 11=121 \quad 30 \times 30=900$ $11 \times 11=121 \quad 40 \times 40=1600$ $\begin{array}{ll}12 \times 12=144 \\ 20 \times 20 & =400\end{array} \quad 50 \times 50=2500$


## Cube numbers

- When we multiply a number by itself When we multiply a dain, we get a cube number, for example: $3 \times 3 \times 3=3^{3}=27$
a cube numbers to learn:

$$
\begin{array}{rc}
1^{3} & =1 \times 1 \times 1= \\
2^{3}=2 \times 2 \times 2= & 8 \\
3^{3}=3 \times 3 \times 3= & 27 \\
4^{3}=4 \times 4 \times 4= & 64 \\
5^{3}=5 \times 5 \times 5= & 125 \\
10^{3}=10 \times 10 \times 10= & 1000
\end{array}
$$

## Thinking Tasks 4 to 6

$2^{3}$
$1^{3}$


T4. Breathe in, breathe out

- How many times do you think you breath
in one day? Write
in one day? Write down your yostimate.
- Look at a clock and cour your estimate. times you breathe in one how many people breathe in one minute. Most a minute Areathe approximately 12 time
Now calcure you faster or slower?
Now calculate how many breaths you ta in one hour and then in a day. How does take
this compare to this compare to your estimate?
Now calculate how many breaths you

T6. Equal shares

- Raj has a large square gard is
is divided into 16 squaller squarene garden
- Raj has to share the garler squares.
his brother Hari and garden equally with contain eight full small square mus
Investigate the small squares.
divide the gardifferent ways they could arrangements, for Draw some possible


Look at the size of the angle and work out how
many drank milk.

- How many drank fruit juice?
- What fraction was this?
- How many drank water?

P20b

- Bar charts are often presented sideways From the information in the table, complete to show what at the top of the next page one weekend.
Choose a suitable title and scale for
the numbers.

| Going to the cinema | 110 |
| :--- | :---: |
| Playing in the park | 260 |
| Seeing friends | 245 |
| Going out with the family | 210 |
| Relaxing at home | 175 |

 Can you name this city in the
famous for its bridge and opera

