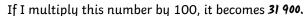
1) If I multiply this number by 10, it becomes 3190.

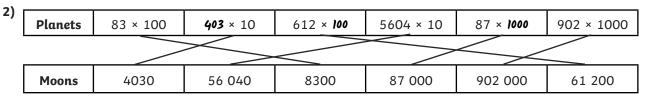
The digits move one place to the left.



The digits move two places to the left.

If I multiply this number by 1000, it becomes 319 000.

The digits move three places to the left.



1) Javine should have said that the digits move three places to the left. If you are multiplying a decimal number by 1000, for example, 2.5 × 1000, adding three zeros results in 2.5000. If any columns on the right of the digits have become empty, they will need a place holder.



Kian's method is correct as  $10 \times 10 \times 10 = 1000$ . It is the same as multiplying by 1000.

- 2) Juno 102 650km, Athena 10 265km, Ceres 2 053 000km, Vesta 102 650km, Apollo 1 026 500km, Vulcan 20 530km
- 3)  $763 \times 10 = 7630$ 7630 + 250 = 7880

She has travelled 7880 steps.

1) The crater is either 242 steps or 414 steps away from the shuttle.



- 2) Possible solutions include the following:
  - A = 320 B = 32
  - A = 650 B = 65
  - A = 850 B = 85

(B should be 10 times bigger than A.)

3) Possible solutions include the following:

$$A = 45 B = 44700$$

$$A = 65 B = 64700$$

$$A = 82 B = 81700$$

