

Answer **all** questions in the spaces provided.

- 1 (a)** A student finds data on the Internet for her project on the Solar System. She checks this data on other websites.

The table shows the checked data.

Name of planet	Diameter in km	Distance from Sun in millions of km	Period in days
Mercury	4 840	58	87
Venus	12 390	108	224
Earth	12 760	149	365
Mars	6 800	228	686
Jupiter	142 800	778	4 332
Saturn	119 400	1 428	10 759
Uranus	47 600	2 870	30 685
Neptune	48 400	4 497	60 190

- 1 (a) (i)** In the table, the period of each planet is given in days.

What is meant by the *period* of a planet?

.....
(1 mark)

- 1 (a) (ii)** Suggest why the student checks the data on other websites.

.....
.....
(1 mark)

- 1 (a) (iii)** What is the relationship, if any, between a planet's distance from the Sun and its period?

.....
.....
(1 mark)



1 (a) (iv) What is the relationship, if any, between a planet's diameter and its period?

.....
.....
(1 mark)

1 (b) What is the force which provides the centripetal force to keep planets in their orbits?

.....
(1 mark)

1 (c) What is the name of the galaxy which contains the Solar System?

.....
(1 mark)

1 (d) Complete the following sentence by drawing a ring around the correct word in the box.

The universe is made up of

hundreds
thousands
millions
billions

 of galaxies. (1 mark)

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Turn over for the next question

Turn over ►

