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| **Investigating Square and Cube Numbers** |
| (a) Write each of these square numbers as a product of its prime factors. |
| $$25$$ | $$49$$ | $$36$$ |
|  |  |  |
| $$100$$ | $$81$$ | $$225$$ |
|  |  |  |
| What do you notice?  |
| (b) Write each of these cube numbers as a product of its prime factors |
| $$125$$ | $$64$$ | $$1000$$ |
|  |  |  |
| What do you notice? |
| (c) By using what you have discovered, decide if each of these numbers is a square number, a cube number, both or neither. |
| $$324$$ | $$512$$ | $$441$$ |
|  |  |  |
| $$200$$ | $$729$$ | $$216$$ |
|  |  |  |