**Identify if the answer will be rational or irrational.**

|  |  |  |  |
| --- | --- | --- | --- |
| **1.**  | $$π+2$$ | **2.**  | $$\sqrt{7}-\sqrt{6}$$ |
|  |  |  |  |
| **3.**  | $$\sqrt{15}\*\frac{1}{\sqrt{15}} $$ | **4.**  | $$\sqrt{5}÷\sqrt{2}$$ |
|  |  |  |  |
| **5.**  | $$32π+\left(0.5π+12,35\right)$$ | **6.**  | $$3-\sqrt{8}$$ |
|  |  |  | $$ $$ |
| **7.**  | $$\sqrt{111}\*\frac{1}{\sqrt{111}}+1 $$ | **8.**  | $$\sqrt{31}-\sqrt{31}+\sqrt{31}$$ |
|  |  |  |  |
| **9.**  | $$\left(1.237-8\right)\*\frac{1}{\sqrt{12}} $$ | **10.**  | $$\sqrt{7}\*\sqrt{7}\*\sqrt{7}\*\sqrt{7}$$ |
|  |  |  |  |
| **11.**  | $$12-\left(\sqrt{41}\right)^{3} $$ | **12.**  | $$\sqrt{133}÷\sqrt{133}\*\sqrt{133}$$ |
|  |  |  |  |

**Insert a rational and an irrational number between each numbers**

|  |  |  |  |
| --- | --- | --- | --- |
| **13.**  | $$4 and 5$$ | **14.**  | $$5 and 7$$ |
|  |  |  |  |
| **15.**  | $$11 and 13$$ | **16.**  | $$5 and 6$$ |
|  |  |  |  |
| **17.**  | $$10 and 11$$ | **18.**  | $$45 and 46$$ |
|  |  |  |  |
| **19.**  | $$8 and 9$$ | **20.**  | $$15 and 16$$ |
|  |  |  |  |