

Fill in the Blanks

Rational and Irrational Numbers

| Number | Rational or Irrational? | First Eight Digits | Rounded to 1 Decimal Place | Rounded to 2 Decimal Places | Rounded to 1 Significant Figure | Rounded to 3 Significant Figures |
|------------------|-------------------------|--------------------|----------------------------|-----------------------------|---------------------------------|----------------------------------|
| $\sqrt{10}$ | <i>Irrational</i> | 3.1622776.. | 3.2 | 3.16 | 3 | 3.16 |
| $\frac{\pi}{2}$ | <i>Irrational</i> | 1.5707963 ... | 1.6 | 1.57 | 2 | 1.57 |
| $\sqrt[3]{1200}$ | <i>Irrational</i> | 10.626585 ... | 10.6 | 10.63 | 11 | 10.6 |
| 7π | <i>Irrational</i> | 21.991148 ... | 22.0 | 21.99 | 20 | 22.0 |
| $7.\dot{6}$ | <i>Rational</i> | 7.6666666 ... | 7.7 | 7.67 | 8 | 7.67 |
| $\pi + 15$ | <i>Irrational</i> | 18.141592 ... | 18.1 | 18.14 | 20 | 18.1 |
| $\frac{7}{90}$ | <i>Rational</i> | 0.0777777 ... | 0.1 | 0.08 | 0.08 | 0.0778 |
| $125 - \sqrt{3}$ | <i>Irrational</i> | 123.26794 ... | 123.3 | 123.27 | 100 | 123 |
| $\sqrt{5}$ | <i>Irrational</i> | 2.2360679 ... | 2.2 | 2.24 | 2 | 2.24 |
| 12π | <i>Irrational</i> | 37.699111 ... | 37.7 | 37.70 | 40 | 37.7 |