

Name: _____ Period: _____ Date: _____

Identifying Irrational Numbers Assignment

Math 8

Determine whether each decimal is rational or irrational number.

1. 0.1223426574

2. $0.3434343 \dots$

3. $0.\overline{22}$

4. $2.389467123 \dots$

5. $12.\overline{349}$

6. $\pi + 34$

7. $1.12 - \pi$

8. $34,123876 \dots$

Convert each fraction to a decimal, then determine if it is a rational or an irrational number.

9. $\frac{32}{25}$

10. $3\frac{1}{9}$

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11. $\frac{5}{11}$

12. $\frac{45}{23}$

Determine whether each square root is rational or irrational number.

13. $\sqrt{\frac{324}{81}}$

14. $\sqrt{155}$

15. $\sqrt{\pi}$

16. $-\sqrt{7,921}$

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17. $-\sqrt{256}$

18. $\sqrt{0.1243}$

19. $\sqrt{487}$

20. $\sqrt{6,084}$