

Pre–Algebra

Workbook

S*implified*
olutions
For Math

Pre-Algebra Bench Mark 6 Practice

Classify as rational or irrational.

1. 0.33

11. 1

2. $\sqrt{16}$

12. ϕ

3. 7.125

13. $\sqrt[3]{8}$

4. $\sqrt{23}$

14. $\sqrt{6}$

5. π

15. $\sqrt{31}$

6. 4.05

16. $\sqrt[3]{84}$

7. 0.01

17. $2\frac{1}{2}$

8. $\frac{2}{3}$

18. $\sqrt[3]{65}$

9. $\sqrt[3]{45}$

19. e

10. $\sqrt[4]{14}$

20. 3.012

Pre-Algebra Bench Mark 7 Practice

1. Find the period of the repeating part of $\frac{1}{11}$.

2. Convert $0.\overline{27}$ to a fraction in simplest form.

3. Write $\frac{21}{22}$ as a decimal.

Classify the decimal as repeating or terminating.

4. Find the period of the repeating part of $\frac{1}{3}$.

5. Convert $0.5\overline{83}$ to a fraction in simplest form.

6. Write $\frac{6}{5}$ as a decimal.

Classify the decimal as repeating or terminating.

7. Find the period of the repeating part of $\frac{47}{33}$.

8. Convert $0.69\overline{69}$ to a fraction in simplest form.

9. Write $\frac{11}{12}$ as a decimal.

Classify the decimal as repeating or terminating.

10. Find the period of the repeating part of $\frac{8}{11}$.

11. Convert $0.54\overline{54}$ to a fraction in simplest form.

12. Write $\frac{3}{11}$ as a decimal.

Classify the decimal as repeating or terminating.

13. Find the period of the repeating part of $\frac{53}{66}$.

14. Convert 0.235 to a fraction in simplest form.

15. Write $\frac{8}{7}$ as a decimal.

Classify the decimal as repeating or terminating.

Pre-Algebra Bench Mark 8 Practice

1. The price of a bus ticket has increased from \$4.00 to \$5.00. What is the percent of increase?
2. The price of a computer has decreased from \$800.00 to \$600.00. What is the percent of decrease?
3. The price of a toy train has increased from \$10.00 to \$12.00. What is the percent of increase?
4. The price of a pair of shoes has decreased from \$100.00 to \$80.00. What is the percent of decrease?
5. The price of daycare has decreased from \$20.00 a day to \$18.00 a day. What is the percent of decrease?
6. The price of blocks has decreased from \$4.00 to \$2.00. What is the percent of decrease?
7. The price of a plane ticket has increased from \$50.00 to \$57.50. What is the percent of increase?
8. The price of a pair of pants has decreased from \$80.00 to \$56.00. What is the percent of decrease?
9. The price of a toy truck has increased from \$12.00 to \$16.20. What is the percent of increase?
10. The price of a toy train has increased from \$10.00 to \$14.00. What is the percent of increase?
11. The price of a bottle of water has increased from \$3.00 to \$4.50. What is the percent of increase?
12. The price of a cup of coffee has decreased from \$4.00 to \$2.20. What is the percent of decrease?
13. The price of a book has increased from \$10.00 to \$12.50. What is the percent of increase?
14. The price of a box of pencils has decreased from \$2.00 to \$1.50. What is the percent of decrease?
15. The price of a hamburger has decreased from \$1.00 to \$0.50. What is the percent of decrease?