Algebra $\frac{1}{2}$

Testing Schedule

Test to be administered:	Covers material up through:	Give after teaching:
Test 1	Lesson 4	Lesson 8
Test 2	Lesson 8	Lesson 12
Test 3	Lesson 12	Lesson 16
Test 4	Lesson 16	Lesson 20
Test 5	Lesson 20	Lesson 24
Test 6	Lesson 24	Lesson 28
Test 7	Lesson 28	Lesson 32
Test 8	Lesson 32	Lesson 36
Test 9	Lesson 36	Lesson 40
Test 10	Lesson 40	Lesson 44
Test 11	Lesson 44	Lesson 48
Test 12	Lesson 48	Lesson 52
Test 13	Lesson 52	Lesson 56
Test 14	Lesson 56	Lesson 60
Test 15	Lesson 60	Lesson 64
Test 16	Lesson 64	Lesson 68
Test 17	Lesson 68	Lesson 72
Test 18	Lesson 72	Lesson 76
Test 19	Lesson 76	Lesson 80
Test 20	Lesson 80	Lesson 84
Test 21	Lesson 84	Lesson 88
Test 22	Lesson 88	Lesson 92
Test 23	Lesson 92	Lesson 96
Test 24	Lesson 96	Lesson 100
Test 25	Lesson 100	Lesson 104
Test 26	Lesson 104	Lesson 108
Test 27	Lesson 108	Lesson 112
Test 28	Lesson 112	Lesson 116
Test 29	Lesson 116	Lesson 120
Test 30	Lesson 120	Lesson 123
Test 31	Lesson 123	Lesson 123

Test 1

1. (3)
$$\begin{array}{r} {}^{6}\cancel{7}^{1}\cancel{3}^{1}7 \\ -\ 6\,6\,8 \\ \hline \mathbf{6\,9} \end{array}$$

2. (1)
$$\begin{array}{r} {}^{1\,1}\quad \\ 81{,}104 \\ 20{,}229 \\ +\ 18{,}284 \\ \hline \mathbf{119{,}617} \end{array}$$

3. (4)
$$\begin{array}{r} {}^{5\,2}\quad \\ 273 \\ \times\ 87 \\ \hline {}^{1}1911 \\ 21840 \\ \hline \mathbf{23{,}751} \end{array}$$

4. (4)
$$\begin{array}{r} {}^{1}\quad \\ 26 \\ \times\ 3 \\ \hline 78 \end{array} \qquad \begin{array}{r} {}^{4}\quad \\ \cancel{7}8 \\ \times\ 64 \\ \hline 312 \\ 4680 \\ \hline \mathbf{4992} \end{array}$$

5. (4)
$$\begin{array}{r} \mathbf{\$4.30} \\ 7\overline{)\$\cancel{3}^{2}\cancel{0}^{1}.10} \\ 28 \\ \hline 21 \\ 21 \\ \hline 0 \end{array}$$

6. (4)
$$\begin{array}{r} \mathbf{\$4.31} \\ 5\overline{)\$21.55} \\ 20 \\ \hline 15 \\ 15 \\ \hline 5 \end{array}$$

7. (4)
$$\begin{array}{r} \mathbf{\$2.77} \\ 7\overline{)\$19.39} \\ 14 \\ \hline {}^{4}\cancel{5}^{1}3 \\ 49 \\ \hline 49 \end{array}$$

8. (4)
$$\begin{array}{r} {}^{2\,1}\quad \\ {}^{\cancel{5}\,2}274 \\ \times\ 47 \\ \hline {}^{1}1918 \\ 10960 \\ \hline \mathbf{12{,}878} \end{array}$$

9. (4)
$$\begin{array}{r} 81 \\ \times\ 6 \\ \hline 486 \end{array} \qquad \begin{array}{r} {}^{4\,3}\quad \\ 486 \\ \times\ 15 \\ \hline {}^{1}2430 \\ 4860 \\ \hline \mathbf{7290} \end{array}$$

10. (4)
$$\begin{array}{r} B \\ \times\ 16 \\ \hline 192 \end{array} \qquad \begin{array}{r} \mathbf{12} \\ 16\overline{)192} \\ 16 \\ \hline 32 \\ 32 \\ \hline 0 \end{array}$$

11. (3)
$$\begin{array}{r} W \\ -\ 197 \\ \hline 365 \end{array} \qquad \begin{array}{r} {}^{1\,1}\quad \\ 365 \\ +\ 197 \\ \hline \mathbf{562} \end{array}$$

12. (3)
$$\begin{array}{r} 917 \\ -\ E \\ \hline 540 \end{array} \qquad \begin{array}{r} {}^{8}\quad \\ \cancel{9}^{1}17 \\ -\ 540 \\ \hline \mathbf{377} \end{array}$$

13. (3)
$$\begin{array}{r} B \\ +\ 219 \\ \hline 370 \end{array} \qquad \begin{array}{r} {}^{6\,1}\quad \\ 3\cancel{7}0 \\ -\ 219 \\ \hline \mathbf{151} \end{array}$$

14. (4) $90 \div W = 9$
$$\begin{array}{r} \mathbf{10} \\ 9\overline{)90} \\ 9 \\ \hline 00 \end{array}$$

15. (1) **115,121,171**

16. (1) **ten million, one hundred thirty-four thousand, five hundred nineteen**

17. (1) **(6 × 1,000,000) + (2 × 100,000) + (3 × 1000) + (6 × 100) + (4 × 10) + (9 × 1)**

18. (1) 20,000 + 3000 + 500 + 50 + 3 = **23,553**

19. (2)
$$23,\textcircled{3}72,931$$
23,400,000

20. (2) **−361, −134, −80, 44, 139, 229**

Test 2

1. (5)
$$\begin{array}{r} 249 \\ -\ 142 \\ \hline \mathbf{107} \end{array}$$ **pages**

Answers

practice

a. 2000 **b.** 6043 **c.** (8 × 10,000) + (5 × 1000) + (2 × 10) **d.** 10,205,041,500

e. Thirty-six million, twenty-five thousand, one hundred three

problem set 1

1. (a) 60,000 (b) 900 (c) 3 **2.** 334,333 **3.** 3,666,766 **4.** 39,959,992

5. 41,000,200,520 **6.** 507,640,090,042 **7.** 407,000,090,742,072 **8.** 980,000,470

9. Five hundred seventeen million, two hundred thirty-six thousand, four hundred twenty-eight

10. Ninety million, eight hundred seven thousand, sixty

11. Thirty-two billion, six hundred fifty-two

12. Three billion, two hundred fifty million, nine thousand, one hundred eleven

13. Six million, forty thousand **14.** Ninety-nine million, nineteen thousand, nine hundred

15. 304,020 **16.** 70,860 **17.** 9405 **18.** 7,026,000

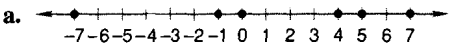
19. (5 × 1000) + (2 × 100) + (8 × 10) **20.** (4 × 100) + (8 × 1)

21. (7 × 10,000) + (6 × 100) **22.** (2 × 10,000) + (1 × 1000)

23. (4 × 1000) + (5 × 1) **24.** (9 × 1000) + (8 × 10) **25.** 294 **26.** 18,778

27. $106.36 **28.** 22,840 **29.** 2942 **30.** $13.16

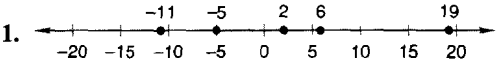
practice

a. 

b. −637, 367, 376, 673, 736 **c.** 914,470,000

d. 83,626,000

problem set 2

1. 

2. −415, 145, 154, 451, 514

3. 249, 294, 429, 924, 942 **4.** 4,185,300 **5.** 83,722,000 **6.** 415,200,000

7. 777,727,757 **8.** 3,634,733 **9.** 107,047,020 **10.** 93,462,000,047

11. Seven hundred thirty-one million, two hundred eighty-four thousand, six

12. Nine hundred three million, seven hundred twenty-one thousand, six hundred twenty-five

13. Nine billion, three million, one thousand, two hundred fifty-six

14. Seven billion, two hundred thirty-four million, fifty-two

15. 70,654 **16.** 309,763 **17.** 9609

18. (1 × 100,000) + (9 × 1000) + (3 × 100) + (2 × 10) + (6 × 1)

19. (6 × 10,000) + (8 × 1000) + (3 × 100) + (1 × 10) + (2 × 1)

20. (9 × 100,000) + (3 × 1000) + (1 × 100) + (6 × 10) + (2 × 1)

21. $228.58 **22.** 21,041 **23.** 219,258 **24.** 331,233 **25.** 213,820

26. 230,251 **27.** 1036 **28.** 1380 **29.** $17.32 **30.** 13,697

practice

a. $27.17 **b.** 349 **c.** 399 **d.** 740 **e.** 369

problem set 3

1. 225,223 **2.** 70,777 **3.** 4,144,444 **4.** 14,705,052 **5.** 500,000,465,182

6. (6 × 10,000) + (4 × 1000) + (3 × 10) **7.** (7 × 10,000) + (9 × 1000) + (3 × 1)

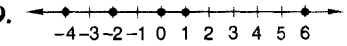
8. (1 × 100,000) + (2 × 10,000) + (3 × 1000) + (4 × 100) + (1 × 10) + (9 × 1)

9. 377 **10.** 569 **11.** 1410 **12.** 1311 **13.** $10.51 **14.** 65 **15.** 521

16. 364 **17.** 476 **18.** 186 **19.** 85,325 **20.** 6606 **21.** 320,907

22. Five billion, eight hundred three million, one hundred twenty-five thousand, seven hundred two

23. 2083 **24.** $12.23 **25.** 255,945 **26.** 4614 **27.** 720,000,000 **28.** 716,490,000

29. 

30. −213, 123, 132, 231, 321

Test 1 **SHOW YOUR WORK** **Name:** _____

1. Subtract: $\begin{array}{r} 737 \\ -\ 668 \\ \hline \end{array}$

2. Add: $\begin{array}{r} 81{,}104 \\ 20{,}229 \\ +\ 18{,}284 \\ \hline \end{array}$

Multiply:

3. 273×87

4. $26 \cdot 3 \cdot 64$

Divide:

5. $\frac{\$30.10}{7}$

6. $\frac{\$21.55}{5}$

7. $\frac{\$19.39}{7}$

Multiply:

8. 274×47

9. $81 \cdot 6 \cdot 15$

Find the missing number:

10. $B \cdot 16 = 192$

11. $W - 197 = 365$

12. $917 - E = 540$

13. $B + 219 = 370$

14. $\frac{90}{W} = 9$

15. A number has nine digits. All the digits are 1 except the millions' digit, which is 5, the ten-thousands' digit, which is 2, and the tens' digit, which is 7. Use digits to write the number.

16. Use words to write the number 10134519.

17. Write the number 6,203,649 in expanded notation.

18. Write the following number in standard notation:

$$(2 \times 10{,}000) + (3 \times 1000) + (5 \times 100) + (5 \times 10) + (3 \times 1)$$

19. Round 23,372,931 to the nearest hundred thousand.

20. Arrange the following numbers in order from least to greatest:

$$-361, -80, 139, 44, -134, 229$$