

Practice Set 1

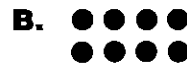


Write the letter of the array that matches the number model.

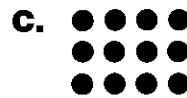
1. $2 * 5 = 10$ _____



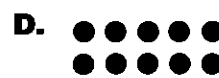
2. $4 * 3 = 12$ _____



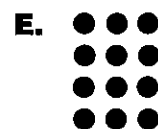
3. $1 * 8 = 8$ _____



4. $3 * 4 = 12$ _____



5. $2 * 4 = 8$ _____



Round to the nearest hundred.

6. 699 _____

7. 2,208 _____

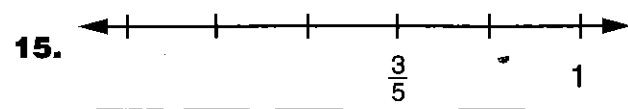
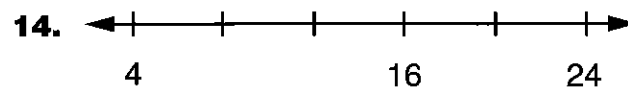
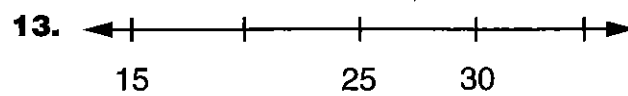
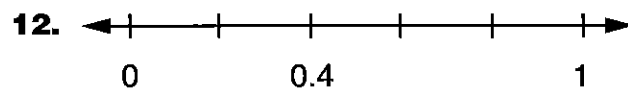
8. 7,942 _____

9. 51,985 _____

10. 22,761 _____

11. 17,032 _____

Complete the following number lines.



Practice Set 2

For each set of problems, do as many problems as you can in one minute. You can ask someone to time you.

Problem Set 1

1. $5 * 2 =$ _____

2. $6 * 10 =$ _____

3. $2 * 4 =$ _____

4. $3 * 5 =$ _____

5. $8 * 6 =$ _____

6. $8 * 7 =$ _____

7. $11 * 5 =$ _____

8. $7 * 6 =$ _____

9. $5 * 4 =$ _____

10. $6 * 7 =$ _____

11. $7 * 9 =$ _____

12. $7 * 4 =$ _____

13. $6 * 9 =$ _____

14. $8 * 2 =$ _____

15. $2 * 10 =$ _____

Problem Set 2

16. $9 * 4 =$ _____

17. $7 * 8 =$ _____

18. $8 * 3 =$ _____

19. $9 * 2 =$ _____

20. $9 * 6 =$ _____

21. $5 * 10 =$ _____

22. $5 * 6 =$ _____

23. $4 * 8 =$ _____

24. $6 * 3 =$ _____

25. $3 * 8 =$ _____

26. $10 * 10 =$ _____

27. $9 * 5 =$ _____

28. $7 * 3 =$ _____

29. $3 * 11 =$ _____

30. $0 * 9 =$ _____

Problems Set 3

31. $2 * 11 =$ _____

32. $3 * 10 =$ _____

33. $1 * 4 =$ _____

34. $4 * 3 =$ _____

35. $3 * 7 =$ _____

36. $5 * 3 =$ _____

37. $11 * 0 =$ _____

38. $9 * 5 =$ _____

39. $5 * 8 =$ _____

40. $6 * 2 =$ _____

41. $4 * 4 =$ _____

42. $7 * 7 =$ _____

43. $9 * 11 =$ _____


44. $3 * 12 =$ _____

45. $4 * 4 =$ _____

Practice Set

2



46.  **Writing/Reasoning** Is 8 a factor of 70? Explain how you found your answer.



Solve.

$$\begin{array}{r} 47. \quad 250 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 48. \quad 525 \\ - 78 \\ \hline \end{array}$$

$$\begin{array}{r} 49. \quad 184 \\ - 67 \\ \hline \end{array}$$

$$\begin{array}{r} 50. \quad 21 \\ + 55 \\ \hline \end{array}$$

$$\begin{array}{r} 51. \quad 35 \\ + 24 \\ \hline \end{array}$$

$$\begin{array}{r} 52. \quad 39 \\ + 16 \\ \hline \end{array}$$

$$\begin{array}{r} 53. \quad 19 \\ \times 30 \\ \hline \end{array}$$

$$\begin{array}{r} 54. \quad 531 \\ + 721 \\ \hline \end{array}$$

$$\begin{array}{r} 55. \quad 1,800 \\ - 744 \\ \hline \end{array}$$

$$56. (60 + 30) * 5 = \underline{\hspace{2cm}}$$

$$57. 38 - (6 * 6) = \underline{\hspace{2cm}}$$

$$58. 48 + 22 + 27 = \underline{\hspace{2cm}}$$

$$59. \left(\frac{63}{9}\right) * 7 = \underline{\hspace{2cm}}$$

Round to the nearest thousand.

$$60. 47,983 \underline{\hspace{1cm}}$$

$$61. 5,255 \underline{\hspace{1cm}}$$

$$62. 76,529 \underline{\hspace{1cm}}$$

$$63. 383,051 \underline{\hspace{1cm}}$$

Write the coordinates of the points shown on the coordinate grid.

$$64. A \underline{\hspace{1cm}}$$

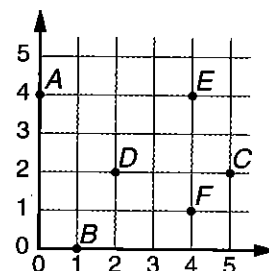
$$65. B \underline{\hspace{1cm}}$$

$$66. C \underline{\hspace{1cm}}$$

$$67. D \underline{\hspace{1cm}}$$

$$68. E \underline{\hspace{1cm}}$$

$$69. F \underline{\hspace{1cm}}$$



Practice Set 3

Use the numbers from 30 to 50 to answer Problems 1–4.

1. List the even numbers. _____
2. List the odd numbers. _____
3. List the numbers that have 5 as a factor. _____
4. List the numbers that have 4 as a factor. _____




Solve.

5. $5 + 4 =$ _____
6. $12 - 4 =$ _____
7. $10 + 7 =$ _____
8. $11 - 5 =$ _____
9. $9 + 6 =$ _____
10. $11 - 8 =$ _____

Write each of the following in dollars-and-cents notation.

11. 4 quarters, 3 dimes, 2 nickels, 4 pennies _____
12. 6 quarters, 6 dimes, 1 nickel, 2 pennies _____

13.  **Writing/Reasoning** Kim is given a fact triangle with the numbers 48, 8, and 6. She must write the fact family for this triangle. Kim writes $48 \div 6 = 8$ as one of her facts. Is this answer correct? Explain your answer.

Practice Set 4



Use divisibility rules to help you answer these questions.

Write *yes* or *no*.

1. Is 300 divisible by 5? _____
2. Is 752 divisible by 2? _____
3. Is 5,225 divisible by 3? _____
4. Is 39,105 divisible by 9? _____
5. Is 18,373 divisible by 5? _____
6. Is 103,748 divisible by 10? _____

Write the numbers in order from least to greatest.

7. $\frac{7}{10}, \frac{5}{10}, \frac{9}{10}, \frac{3}{10}, \frac{6}{10}$ _____
8. $\frac{3}{5}, \frac{3}{7}, \frac{3}{4}, \frac{3}{2}, \frac{3}{8}$ _____
9. $\frac{1}{2}, \frac{3}{5}, \frac{1}{4}, \frac{7}{10}, \frac{11}{12}$ _____

Complete the name-collection boxes. Use as many different numbers and operations as you can.

Example

189
$(60 \times 3) + 9$
$378 \div 2$
$(200 - 15) + 4$

10.

245

11.

138

12.

79

13.

402

Practice Set 4 *continued*



Complete.

14. $10^3 =$ _____

15. $10^{\square} = 10,000$

16. $10 * 10 * 10 * 10 * 10 =$ _____

17. 10 to the eighth power = _____

Rewrite the number models with parentheses to make them correct.

18. $7 * 9 - 4 = 35$ _____

19. $7 * 9 - 4 = 59$ _____

20. $32 - 16 - 7 = 9$ _____

21. $32 - 16 - 7 = 23$ _____

22. $589 = 6 * 25 + 75 - 11$ _____

Solve.

23. How many 7s are in 7,700? _____



Solve.

24.
$$\begin{array}{r} 2,000 \\ * 43 \\ \hline \end{array}$$

25.
$$\begin{array}{r} 150 \\ * 30 \\ \hline \end{array}$$

26.
$$\begin{array}{r} 2,500 \\ * 5 \\ \hline \end{array}$$

27.
$$\begin{array}{r} 175 \\ * 20 \\ \hline \end{array}$$

28.
$$\begin{array}{r} 428 \\ * 8 \\ \hline \end{array}$$

29.
$$\begin{array}{r} 92 \\ * 15 \\ \hline \end{array}$$

30.
$$\begin{array}{r} 800 \\ * 45 \\ \hline \end{array}$$

31.
$$\begin{array}{r} 750 \\ * 18 \\ \hline \end{array}$$

32. $6 \overline{)78}$

33. $30 \overline{)4,500}$

34. $\frac{450}{9} =$ _____

35. $7 \overline{)378}$

36. A soup company offered to donate 40¢ for every soup-can label a school turned in. Forty-three students at Audubon School each brought in 25 soup-can labels. How many soup-can labels did all the students bring in? _____

37. How much will the soup company donate to Audubon School? _____

Practice Set 5




Write *prime* or *composite* for each number.

1. 18 _____ 2. 17 _____ 3. 39 _____

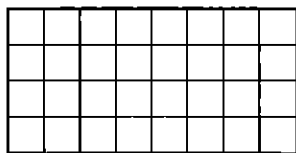
4. 43 _____ 5. 50 _____ 6. 23 _____

7. 42 _____ 8. 77 _____ 9. 37 _____

10.  **Writing/Reasoning** How do you know if a number is prime?

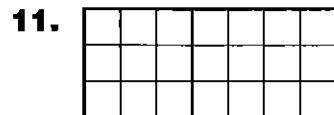
Find the area of each rectangle and write the number model.

Example

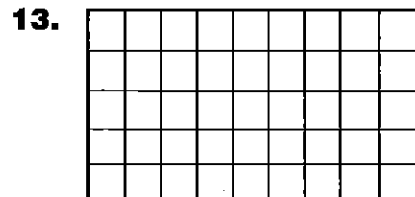


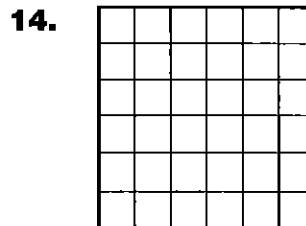
$$4 * 8 = 32 \text{ square units}$$

$$\text{Area} = \text{length } (l) \times \text{width } (w)$$









Practice Set 5 *continued*



Write each decimal as a percent.

15. 0.40 _____

16. 0.25 _____

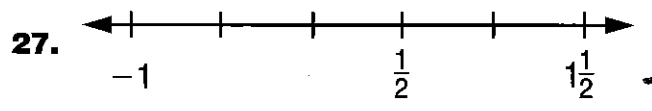
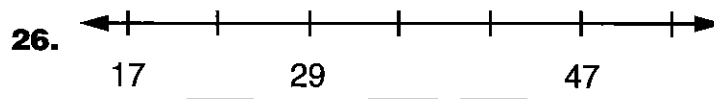
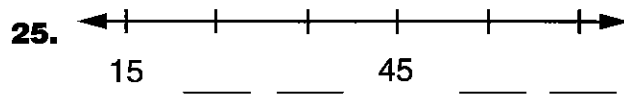
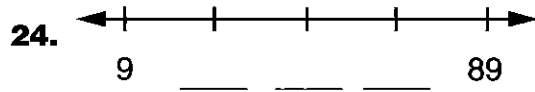
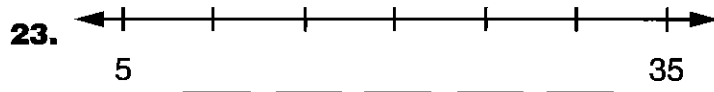
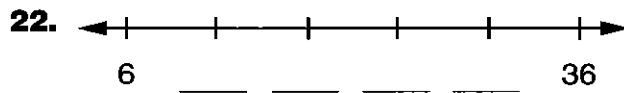
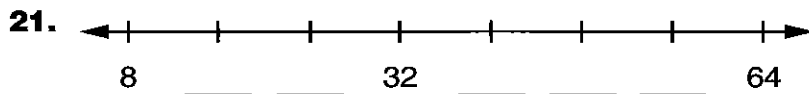
17. 0.12 _____

18. 0.85 _____

19. 1.67 _____

20. 0.05 _____

Complete the number lines.



Practice Set 6



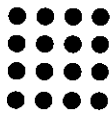
Write the letter of the array that matches each square number.

1. 36 _____

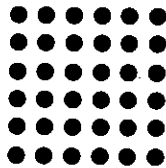
2. 64 _____

3. 16 _____

4. 9 _____



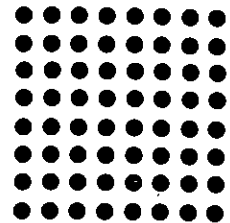
A.



B.



C.



D.

List all the factors of each number. Tell whether each number is *prime* or *composite*.

5. 24 _____

6. 50 _____

7. 17 _____

8. 44 _____

Compare. Write $<$ or $>$.

9. 33,085 _____ 13,058

10. 41,123 _____ 13,058

11. 110,362 _____ 101,317

12. 583,627 _____ 588,267

Write the digit in the thousands place.

13. 71,345 _____

14. 836,210 _____

15. 9,219 _____

16. 415,740 _____

17. 307,912 _____

18. 1,927,435 _____

Solve.

$$\begin{array}{r} 19. \quad 444 \\ \times 80 \\ \hline \end{array}$$

$$\begin{array}{r} 20. \quad 35 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 21. \quad 749 \\ - 482 \\ \hline \end{array}$$

$$22. \quad 4 \overline{)196}$$



Write each of the following in standard notation.

23. 4^2 _____

24. 12^2 _____

25. 27^2 _____

26. 25^2 _____

27. 40^2 _____

28. 62^2 _____

Six people share \$111 equally.

29. How many \$100 bills does each person get? _____

30. How many dollars are left to share? _____

31. How many \$10 bills does each person get? _____

32. How many dollars are left to share? _____

33. How many \$1 bills does each person get? _____

34. How many dollars are left over? _____

35. If the leftover money is shared equally,
how many cents does each person get? _____

36. Write a number model for the above problem. _____



Solve.

37. $210 - 180 =$ _____

38. $526 + 127 =$ _____

39. $80 + 36 =$ _____

40. $52 - 17 =$ _____

41. $97 - 8 =$ _____

42. $90 * 9 =$ _____

43. $587 - 236 =$ _____

44. $2,662 - 141 =$ _____

45. $370 * 8 =$ _____

46. $262 + 3,455 =$ _____

47. $120 * 50 =$ _____

48. $2,625 + 5,213 =$ _____

Practice Set**7**

Write the letter that matches the square root of each number.

- | | |
|---------------|--------|
| 1. 49 _____ | A. 0.5 |
| 2. 0.25 _____ | B. 13 |
| 3. 169 _____ | C. 20 |
| 4. 400 _____ | D. 7 |

Tell whether each number is a square number. Write *yes* or *no*.

- | | | |
|--------------|--------------|---------------|
| 5. 64 _____ | 6. 177 _____ | 7. 90 _____ |
| 8. 144 _____ | 9. 225 _____ | 10. 250 _____ |

Write the number sentences with parentheses. Then solve.

11. Add 70 to the difference of 365 and 36.

12. Subtract the sum of 24 and 13 from 48.

13. Add 7 to the difference of 37 and 15.

14. Subtract the sum of 18 and 222 from 428.

Write the following numbers in digits.

15. eighty million, three hundred twenty-one thousand, nine hundred eleven

16. two billion, fifty-six thousand, five hundred

17. six hundred fourteen billion, three hundred million

Practice Set 8



Rewrite each product, using exponents.

1. $3 * 3 * 3$ _____

2. $3 * 3 * 5 * 5 * 5$ _____

3. $2 * 2 * 7 * 7$ _____

4. $5 * 5 * 7 * 7$ _____

5. $3 * 3 * 11 * 11$ _____

6. $5 * 5 * 5 * 5$ _____

Circle the prime factorization for each number.

7. 16 $2 * 2 * 2 * 2$ $2 * 2 * 2 * 4$

8. 9 $2 * 3$ $3 * 3$

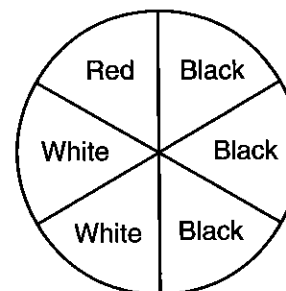
9. 30 $3 * 10$ $2 * 3 * 5$

Suppose you spin a paper clip on the spinner shown.
Write *true* or *false* for each statement.

10. The paper clip is most likely to land on black. _____

11. The paper clip is least likely to land on red. _____

12. The paper clip is equally likely to land on black as on white. _____



Solve.

13.
$$\begin{array}{r} 20 \\ + 17 \\ \hline \end{array}$$

14.
$$\begin{array}{r} 31 \\ - 15 \\ \hline \end{array}$$

15.
$$\begin{array}{r} 38 \\ + 24 \\ \hline \end{array}$$

16.
$$\begin{array}{r} 320 \\ - 160 \\ \hline \end{array}$$

17.
$$\begin{array}{r} 560 \\ + 481 \\ \hline \end{array}$$

18.
$$\begin{array}{r} 745 \\ - 260 \\ \hline \end{array}$$

Practice Set 8 *continued*

For each set of problems, do as many as you can in one minute. You can ask someone to time you.

Problem Set 1

19. $\frac{108}{9} =$ _____

20. $\frac{44}{4} =$ _____

21. $\frac{121}{11} =$ _____

22. $\frac{90}{9} =$ _____

23. $\frac{132}{12} =$ _____

24. $12 * 5 =$ _____

25. $10 * 11 =$ _____

26. $12 * 7 =$ _____

27. $9 * 7 =$ _____

28. $4 * 12 =$ _____

29. $6 * 7 =$ _____

30. $4 * 3 =$ _____

31. $\frac{14}{2} =$ _____

32. $17 * 2 =$ _____

33. $12 * 10 =$ _____

Problem Set 2

34. $9 * 6 =$ _____

35. $7 * 7 =$ _____

36. $12 * 8 =$ _____

37. $2 * 10 =$ _____

38. $11 * 4 =$ _____

39. $12 * 6 =$ _____

40. $3 * 11 =$ _____

41. $12 * 9 =$ _____

42. $4 * 7 =$ _____

43. $11 * 11 =$ _____

44. $\frac{81}{9} =$ _____

45. $8 * 8 =$ _____

46. $12 * 12 =$ _____

47. $\frac{16}{4} =$ _____

48. $6 * 9 =$ _____

Problem Set 3

49. $6 * 6 =$ _____

50. $12 * 11 =$ _____

51. $8 * 4 =$ _____

52. $3 * 8 =$ _____

53. $4 * 10 =$ _____

54. $\frac{64}{8} =$ _____

55. $\frac{49}{7} =$ _____

56. $\frac{144}{12} =$ _____

57. $\frac{21}{3} =$ _____

58. $\frac{55}{5} =$ _____

59. $\frac{63}{9} =$ _____

60. $\frac{21}{7} =$ _____

61. $15 * 3 =$ _____

62. $\frac{48}{8} =$ _____

63. $9 * 8 =$ _____