

Chapter 9 Review

Name: \_\_\_\_\_

1. Compare the fractions. Write  $>$ ,  $<$ , or  $=$  for the  $\bigcirc$ .

$$\frac{5}{6} \bigcirc \frac{3}{12}$$

2.  $9 \times 9 =$  \_\_\_\_\_

3. Use words to write 61,271 and 36,105. Which number is greater?

4. Use words to write 9.6 and 1.909. Which number is greater?

5. How much are

4 [5s]?

4 [50s]?

40 [5s]?

40 [50s]?

6. There were 16 players riding in 2 vans. The same number of players rode in each van. How many players rode in each van?

7. 5 is a factor of half of me. My digits add up to 4. I am greater than 30 but less than 100. What number am I?

8. What number is  $\frac{3}{7}$  of 14?

9. The last chapter in Chloe's book has 28 pages. If Chloe reads 4 pages in her book each day, how long will it take her to read the last chapter?

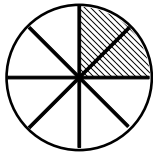
What fraction of the last chapter will she read each day?

10. Write a fraction that is equivalent to  $\frac{1}{3}$ .

11. Write a fraction that is equivalent to  $1\frac{3}{4}$ .

12. Write a whole number or a mixed number that is equivalent to  $\frac{19}{5}$ .

13. What fraction of the circle is shaded?



14. Write eighty-seven and eighty-three hundredths in standard form. Underline the tens place, circle the hundredths place, and draw an X through the tenths place.

15. Multiply.

a.  $30 \times 50$

b.  $30 \times 500$

16. How much are

a. 70 [90s]

b. 70 [900s]

17. How many 3s are there in 210?

18. How many 60s are there in 4,200?

19. Mikiah bought 5 packages of construction paper. Each package had 130 sheets of paper in it. How many sheets of paper did she buy? Explain how you got your answer.

20. This is part of a Factor Bingo game mat. Put an X on the square you could cover if you turned over a 6.

20	46	63
17	75	62
40	28	24

Multiply. Fill in the missing numbers. Use the partial-products algorithm.

21.

$$\begin{array}{r} 86 \\ \times 40 \\ \hline \square 200 \\ 2\square 0 \\ \hline 3,\square 4\square \end{array}$$

22.

$$\begin{array}{r} 64 \\ \times 46 \\ \hline 24\square 0 \\ 16\square \\ 36\square \\ + 2\square \\ \hline 2,944 \end{array}$$

Multiply. Fill in the missing numbers. Use the partial-products algorithm.

23.

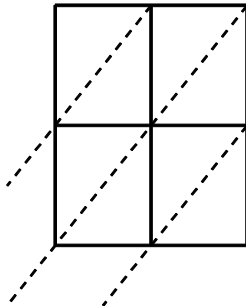
$$\begin{array}{r} 523 \\ \times 5 \\ \hline \square\square\square\square \\ \square\square\square \\ + \square\square \\ \hline \square, \square\square\square \end{array}$$

24.

$$\begin{array}{r} 41 \\ \times 45 \\ \hline \square\square\square\square \\ \square\square \\ \square\square\square \\ + \square \\ \hline \square, \square\square\square \end{array}$$

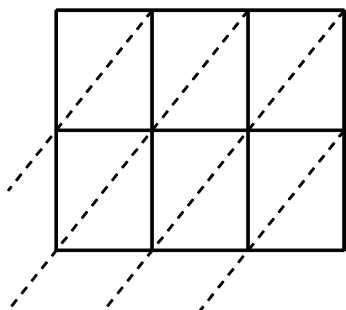
Multiply. Use the lattice method.

25.  $66 \times 35 = \underline{\quad}$



Multiply. Use the lattice method.

26.  $910 \times 21 = \underline{\hspace{2cm}}$



27. Cecily is decorating for a wedding reception. She has 127 flowers. How many bouquets of 7 flowers can Cecily make?
28. \$69 is shared equally by 5 friends.
- a. How many \$10 bills does each friend get?
  - b. How many \$1 bills does each friend get?
  - c. How many \$1 bills are left over?
  - d. If the leftover money is shared equally, how many cents does each friend get?
  - e. Each friend gets a total of \_\_\_\_\_.
  - f. Write the number model.
29. The morning temperature was  $-3^{\circ}\text{F}$ . By noon, the temperature was  $13^{\circ}\text{F}$ . How many degrees had the temperature risen? Explain how you got your answer.

**30. Play Factor Bingo (Partner or small-group activity), Lesson 9.14**

**FOR THE TEACHER:**

**Materials:**

- Photocopies of Math Masters, page 145, “Factor Bingo Game Mat,” one for each student
- Number cards 2–9 (4 of each), one set for each pair of students
- 12 pennies or counters, one set for each player

**FOR THE STUDENT:**

**Directions:**

1. Fill in your own game mat. Choose any 25 numbers from the numbers 2 through 90.
2. Write one number in each square on your grid. You may use a number only once. Be sure to mix them up; they should not all be in order. To help you keep track of the numbers you use, circle them in the list below the game mat.
3. Shuffle the cards and place them number-side down on the table. Any player can turn over the top card. This top card is the “factor.”
4. Players check their grids for a number that has the card number as a factor. Players who have a match cover the number with a counter. (See **Example**.) Turn over the next top card and continue in the same way.
5. You call out “Bingo!” and win the game if you are the first player to get 5 counters in a row, column, or diagonal. You also win if you get 12 counters anywhere on the game mat.
6. If all the cards are used before someone wins, shuffle the cards again and continue playing.
7. On the back of your paper, describe the strategy you used to choose the numbers for your game mat.

**EXAMPLE**

A 5-card is turned over. The number 5 is the “factor.” Any player may place one counter on a number for which 5 is a factor, such as 5, 10, 15, 20, or 25. A player may place only one counter on the game mat for each card that is turned over.

**31. Share Money with Friends (Partner activity), Lesson 9.14**

**FOR THE TEACHER:**

**Materials:**

- Photocopies of Math Masters, page 148, “Sharing Money,” one for each pair
- Number cards 0–9 (at least 2 of each), one set for each pair
- Regular dice, one for each pair
- \$10 bills, \$1 bills, and tool-kit coins for each pair (optional)

*Note: It may be helpful to review Math Journal 2, page 225, with the class before doing this activity.*

**FOR THE STUDENT:**

**Directions:**

1. Shuffle the cards and place them number-side down on the table. Draw 2 number cards. Form a 2-digit number to show how much money will be shared. Record this number on your paper in line 1.
2. Roll the die to show how many friends will share the money. Record this number on your paper in line 1.
3. Answer the questions about sharing the money among the friends.
4. Draw the next 2 cards to form a new 2-digit number. Roll the die again. Record these numbers on your paper in line 2, and answer the questions about sharing the money among friends.

- 32.** *The morning temperature was  $-16^{\circ}\text{F}$ . By noon, the temperature was  $18^{\circ}\text{F}$ . How many degrees had the temperature risen? Explain how you got your answer.*

Multiply. Fill in the missing numbers. Use the partial-products algorithm.

**33.**

$$\begin{array}{r} 51 \\ \times 80 \\ \hline 40\boxed{\phantom{0}}\boxed{\phantom{0}} \\ 8\boxed{\phantom{0}} \\ \hline 4,08\boxed{\phantom{0}} \end{array}$$

Multiply. Fill in the missing numbers. Use the partial-products algorithm.

34.

$$\begin{array}{r} 53 \\ \times 35 \\ \hline 1500 \\ 90 \\ 2\Box 0 \\ + \Box 5 \\ \hline \Box, 85\Box \end{array}$$

35.

$$\begin{array}{r} 236 \\ \times 4 \\ \hline \Box \Box \Box \\ \Box \Box \Box \\ + \Box \Box \\ \hline \Box \Box \Box \end{array}$$

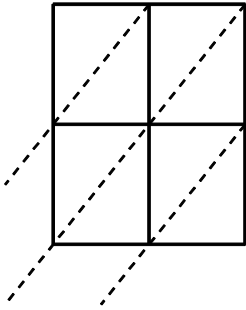
36.

$$\begin{array}{r} 54 \\ \times 68 \\ \hline \Box \Box \Box \Box \\ \Box \Box \Box \\ \Box \Box \Box \\ + \Box \Box \\ \hline \Box, \Box \Box \Box \end{array}$$

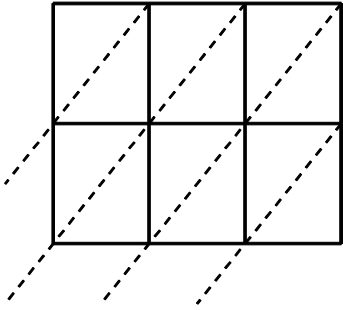


Multiply. Use the lattice method.

37.  $20 \times 53 = \underline{\hspace{2cm}}$



38.  $645 \times 72 = \underline{\hspace{2cm}}$



39. *This is part of a Factor Bingo game mat. Put an X on the square you could cover if you turned over a 7.*

<b>72</b>	<b>92</b>	<b>71</b>
<b>53</b>	<b>97</b>	<b>11</b>
<b>30</b>	<b>21</b>	<b>13</b>

40. Celeste is making bracelets for a crafts fair. She has 107 polished stones. How many bracelets of 9 polished stones can Celeste make?
41. \$153 is shared equally by 6 friends.
- How many \$10 bills does each friend get?
  - How many \$1 bills does each friend get?
  - How many \$1 bills are left over?
  - If the leftover money is shared equally, how many cents does each friend get?
  - Each friend gets a total of \_\_\_\_\_.
  - Write the number model.
42. How much are
- 5 [40s]?
  - 50 [40s]?
  - 500 [40s]?
  - 5,000 [40s]?
43. Multiply.
- $50 \times 60$
  - $50 \times 600$
44. How much are
- 60 [80s]
  - 60 [800s]
45. How many 4s are there in 200?
46. How many 30s are there in 1,500?
47. Mikiah bought 9 packages of construction paper. Each package had 310 sheets of paper in it. How many sheets of paper did she buy? Explain how you got your answer.

Multiply. Fill in the missing numbers. Use the partial-products algorithm.

48. 
$$\begin{array}{r} 64 \\ \times 20 \\ \hline 1\Box00 \\ \phantom{1\Box00} \Box\Box \\ \hline 1,2\Box0 \end{array}$$

49. 
$$\begin{array}{r} 38 \\ \times 58 \\ \hline 1\Box00 \\ 40\Box \\ 2\Box0 \\ + 64 \\ \hline 2,\Box04 \end{array}$$

50. 
$$\begin{array}{r} 894 \\ \times 7 \\ \hline \Box\Box\Box\Box \\ \phantom{\Box\Box\Box\Box} \Box\Box\Box \\ + \phantom{\Box\Box\Box\Box} \Box\Box \\ \hline \Box,\Box\Box\Box \end{array}$$

Multiply. Fill in the missing numbers. Use the partial-products algorithm.

51.

$$\begin{array}{r} 28 \\ \times 53 \\ \hline \square\square\square\square \\ \square\square\square \\ \square\square \\ + \square\square \\ \hline \square, \square\square\square \end{array}$$

52. *Martha collects baseball cards for 3 different teams. She has 4 cards for each team. How many cards does she have?*
53. *Mai-Li is stacking cans for a supermarket display. She has 62 cans. How many stacks of 9 cans can Mai-Li make?*
54. *\$127 is shared equally by 4 friends.*
- a. *How many \$10 bills does each friend get?*
  - b. *How many \$1 bills does each friend get?*
  - c. *How many \$1 bills are left over?*
  - d. *If the leftover money is shared equally, how many cents does each friend get?*
  - e. *Each friend gets a total of \_\_\_\_\_.*
  - f. *Write the number model.*