

Most recent update: December 29, 2023

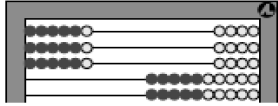
# RightStart™ Mathematics

## Corrections and Updates for Level D/Grade 3 Lessons and Worksheets, second edition

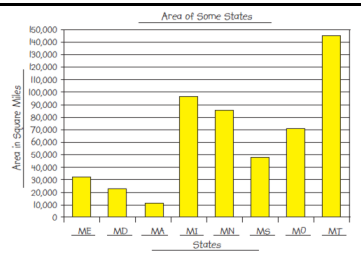
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




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| LESSON/WORKSHEET | CHANGE DATE | CORRECTION OR UPDATE   |
|------------------|-------------|--|
| Lesson 8         | 09/24/2020  | The answer to the In conclusion question should say [when the number being subtracted is <b>greater</b> than the top number], not less than.   |
| Lesson 11        | 05/12/2016  | The second graphic on the first has an incorrect graphic. correct graphic. <div style="text-align: right;">  <p>6 by 3 array.</p> </div>  |
| Lesson 15        | 11/03/2015  | On the second page, under Patterns in Multiples, first paragraph, answer should say [Each multiple is <b>10</b> more than the one above it.]   |
| Lesson 30        | 11/03/2015  | Answers for Worksheet 16: Using evens and odds, what kinds of numbers do you need to get an odd difference? even – odd, odd – even   |
| Lesson 32        | 11/18/2016  | In the conclusion, $1 \times 1 = 2$ should be $1 \times 1 = \mathbf{1}$ .  |
| Lesson 33        | 10/14/2021  | The instructions for the Ring around the Factor game on the second page have been updated. See attached <b>pdf</b> .   |
| Lesson 37        | 11/03/2015  | Questions 10-13: Delete the check numbers in the answers. Question 29: <b>54</b> should also be circled.   |
| Lesson 39        | 12/12/2019  | Answers show check numbers, that is numbers in parentheses after numbers of the equation, (7). This is not taught for another 14 lessons.  |
| Lesson 40        | 06/25/2023  | In the answers for Worksheets 25 on the second page, the last figure in the first column, $4 \times 4 = 1 + 5 \times 3$ is missing a white weight on the right 5-peg.  |
| Lesson 42        | 12/27/2017  | In the warm-up, the line of 8s should read:<br>8 16 24 <b>32</b> 40 <b>48 56</b> 64 72 80<br>Also, the top of the second page has been changed to read as follows: <b>Ask: What does the M+ key do? [adds to memory] What do you think the M- key does? [subtracts from memory]</b> Change the problem to: $6 \times 9 - 5 \times 8 = [14]$ and ask: How can you do it now? [Use the M- key instead of the M+ key <b>to subtract the second expression.</b> ]<br>Finally, the last equation on the worksheet is missing and should be <b><math>5 \times 20 + 2 \times 30 = 160</math>.</b> |

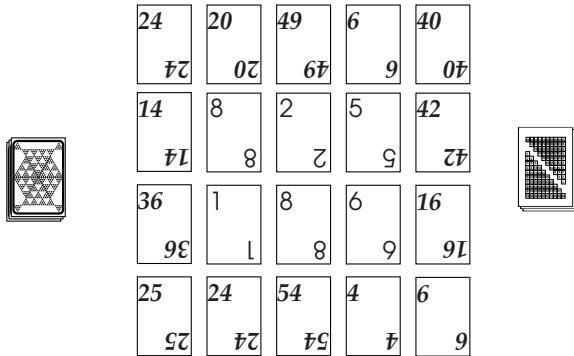
|                             |            |   |
|-----------------------------|------------|---|
| Lesson 45                   | 12/16/2015 | On the second page in the third set of graphics, the place value cards should show <b>6129</b> , not 6189, rounded to 6000.   |
| Lesson 47                   | 12/16/2015 | An answer for the first worksheet, 31-A, is incorrect. 5737 rounded to the nearest 10 is <b>5740</b> , not 5840.  |
| Lesson 49                   | 12/16/2015 | On the second page under the second graphic, the caption should read "Subtracting <b>700</b> ", not 777.  |
| Lesson 51      Worksheet 35 | 05/30/2022 | The second question should read "Make the largest and smallest numbers possible using the <b>8</b> place-value cards shown below, not "Make the largest and smallest numbers possible using the 9 place-value cards shown below." No change to the place-value cards shown.   |
| Lesson 52                   | 12/29/2023 | Under Worksheet 36, the first equation should read $b = 35 \div 5$ , not $b = 35 \times 5$ .  |
| Lesson 53                   | 12/16/2015 | On the second page, under Practice, the number 2588 shows a check number is [ <b>5</b> ], not [2].  |
| Lesson 55                   | 04/11/2016 | Answers for Worksheet 39 missed that <b>18 is a multiple of 2</b> . That cell should be checked with a "y".   |
| Lesson 59                   | 01/04/2021 | On the second page under Building Difference game, the first example should be <b><math>90 - 78 = 12</math></b> , not $89 - 28 = 61$ .  |
| Lesson 60      Worksheet 43 | 04/16/2018 | The worksheet has been reformatted to create more space for the calculations. See <a href="#">pdf</a> .   |
| Lesson 62                   | 12/29/2020 | The example under the Worksheet 45 heading is using the <b>associative</b> property, not the distributive property. The example below it, under the Multiplying $50 \times 4$ heading, uses the associative property.   |
| Lesson 69                   | 04/11/2016 | On the second page, under Can You Find Fraction game, the list of fraction pieces to pick up has a duplicate 2 thirds listed. Eliminate the second 2 thirds.  |
| Lesson 73                   | 03/02/2023 | Under the Minutes in an Hour heading, the second sentence should read "Move the <b>minute</b> hand halfway around and ask....," rather than "Move the hour hand halfway around and ask...."   |
| Lesson 74                   | 05/30/2022 | On the first page, under Review part of a dollar, the second paragraph has changed to: Tell the child to lay out the <b>six</b> coins of different sizes. <b>Find the light gold coin worth one dollar, or 100¢. Explain that they are not used very often.</b> It then continues on to address the half-dollar as written. |
| Lesson 77                   | 04/11/2016 | On the assessment, problem #11 says "Multiply $6209 \times 8$ ." Answer should be <b>49,672</b> with a check number of <b>(1)</b> .<br>$\begin{array}{r} 6209 \text{ (8)} \\ \times 8 \text{ (8)} \\ \hline 72 \\ 1600 \\ \hline 48000 \\ 49,672 \text{ (1)} \end{array}$   |
| Lesson 77                   | 05/18/2017 | On the assessment, numbers 54 to 57 should have answers of <b>80, 800, 8,000, and 80,000</b> , not 8, 80, 800, and 8,000.   |
| Lesson 79                   | 05/12/2016 | Answers to questions 54 to 57 should be <b>50, 500, 5,000, and 50,000</b> , not 5, 50, 500, and 5,000.  |

|               |                |               |  |               |                |               |               |               |               |               |                |               |               |               |                |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |
|---------------|----------------|---------------|--|---------------|----------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Lesson 81     |                | 04/11/2016    | The warm up has the check number of 9 as (9). It should be <b>(0)</b> .  |               |                |               |               |               |               |               |                |               |               |               |                |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |
| Lesson 88     |                | 12/29/2023    | <p>The answers for Worksheet 68-A, putting the fractions in order, was missing the third fraction. Here are the correct answers.</p> <div style="display: flex; align-items: center;"> <div style="margin-right: 20px;"> <p>Put these fractions in order from least to greatest.</p> <table style="border-collapse: collapse;"> <tr><td><math>\frac{1}{2}</math></td><td><math>\frac{1}{3}</math></td><td><math>\frac{1}{4}</math></td><td><math>\frac{1}{4}</math></td><td><math>\frac{1}{3}</math></td><td><math>\frac{1}{2}</math></td></tr> <tr><td><math>\frac{1}{3}</math></td><td><math>1\frac{1}{3}</math></td><td><math>\frac{2}{3}</math></td><td><math>\frac{1}{3}</math></td><td><math>\frac{3}{3}</math></td><td><math>1\frac{1}{3}</math></td></tr> <tr><td><math>\frac{1}{2}</math></td><td><math>\frac{5}{8}</math></td><td><math>\frac{1}{4}</math></td><td><math>\frac{1}{4}</math></td><td><math>\frac{1}{2}</math></td><td><math>\frac{5}{8}</math></td></tr> <tr><td><math>\frac{3}{4}</math></td><td><math>\frac{4}{8}</math></td><td><math>\frac{3}{8}</math></td><td><math>\frac{3}{8}</math></td><td><math>\frac{3}{4}</math></td><td><math>\frac{3}{8}</math></td></tr> <tr><td><math>\frac{4}{1}</math></td><td><math>\frac{1}{1}</math></td><td><math>\frac{5}{1}</math></td><td><math>\frac{1}{1}</math></td><td><math>\frac{1}{1}</math></td><td><math>\frac{5}{1}</math></td></tr> </table> </div> </div> | $\frac{1}{2}$ | $\frac{1}{3}$  | $\frac{1}{4}$ | $\frac{1}{4}$ | $\frac{1}{3}$ | $\frac{1}{2}$ | $\frac{1}{3}$ | $1\frac{1}{3}$ | $\frac{2}{3}$ | $\frac{1}{3}$ | $\frac{3}{3}$ | $1\frac{1}{3}$ | $\frac{1}{2}$ | $\frac{5}{8}$ | $\frac{1}{4}$ | $\frac{1}{4}$ | $\frac{1}{2}$ | $\frac{5}{8}$ | $\frac{3}{4}$ | $\frac{4}{8}$ | $\frac{3}{8}$ | $\frac{3}{8}$ | $\frac{3}{4}$ | $\frac{3}{8}$ | $\frac{4}{1}$ | $\frac{1}{1}$ | $\frac{5}{1}$ | $\frac{1}{1}$ | $\frac{1}{1}$ | $\frac{5}{1}$ |
| $\frac{1}{2}$ | $\frac{1}{3}$  | $\frac{1}{4}$ | $\frac{1}{4}$  | $\frac{1}{3}$ | $\frac{1}{2}$  |               |               |               |               |               |                |               |               |               |                |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |
| $\frac{1}{3}$ | $1\frac{1}{3}$ | $\frac{2}{3}$ | $\frac{1}{3}$  | $\frac{3}{3}$ | $1\frac{1}{3}$ |               |               |               |               |               |                |               |               |               |                |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |
| $\frac{1}{2}$ | $\frac{5}{8}$  | $\frac{1}{4}$ | $\frac{1}{4}$  | $\frac{1}{2}$ | $\frac{5}{8}$  |               |               |               |               |               |                |               |               |               |                |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |
| $\frac{3}{4}$ | $\frac{4}{8}$  | $\frac{3}{8}$ | $\frac{3}{8}$  | $\frac{3}{4}$ | $\frac{3}{8}$  |               |               |               |               |               |                |               |               |               |                |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |
| $\frac{4}{1}$ | $\frac{1}{1}$  | $\frac{5}{1}$ | $\frac{1}{1}$  | $\frac{1}{1}$ | $\frac{5}{1}$  |               |               |               |               |               |                |               |               |               |                |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |
| Lesson 89     |                | 12/27/2017    | <p>Answer for Worksheet 69, #3 should read: 3. Name the months with four syllables. <b>January and February</b></p> <p>In conclusion final answer should be [September, April, June, and <b>November</b>]</p>  |               |                |               |               |               |               |               |                |               |               |               |                |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |
| Lesson 90     |                | 11/07/2020    | In the second paragraph on the second page, the number of days between Memorial Day and Labor Day is <b>97</b> or <b>104</b> days, not 98 or 105 days.   |               |                |               |               |               |               |               |                |               |               |               |                |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |
| Lesson 90     |                | 11/28/2023    | On the first page, in the third paragraph under Calendar for a year, the answer to the second question about any months starting on the same day should be: leap years: January, <b>April</b> , & July, not January & July.  |               |                |               |               |               |               |               |                |               |               |               |                |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |
| Lesson 95     |                | 04/11/2016    | <p>The bar graph solutions for Worksheet 75 are slightly off. See attached <b>PDF</b>.</p>   |               |                |               |               |               |               |               |                |               |               |               |                |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |
| Lesson 95     |                | 11/07/2020    | The additional game to play is the <b>Rows and Columns</b> game, not Constructing a Bar Graph.   |               |                |               |               |               |               |               |                |               |               |               |                |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |
| Lesson 98     | Worksheet 78   | 01/01/2022    | In the second row, the second clock, the hour hand is changed slightly to reflect 9:52 clearer. See <b>PDF</b> .   |               |                |               |               |               |               |               |                |               |               |               |                |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |
| Lesson 99     |                | 04/11/2016    | In the Problem 1 section, below the story problem, should read: Adding the times, 5, 10, and <b>15</b> minutes gives 30 minutes. So she needs to start at 4:00.  |               |                |               |               |               |               |               |                |               |               |               |                |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |
| Lesson 102    |                | 12/12/2019    | The additional game to play, Multiples Solitaire, is game <b>P19</b> , not C23.  |               |                |               |               |               |               |               |                |               |               |               |                |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |
| Lesson 103    |                | 12/12/2019    | The additional game to play, Multiples Solitaire, is game <b>P19</b> , not C23.  |               |                |               |               |               |               |               |                |               |               |               |                |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |
| Lesson 101    | Worksheet 81   | 04/11/2016    | Question #5 should read, "Seven thousand <b>three hundred</b> twenty-nine square miles is water, how much is land?" See attached <b>PDF</b> .  |               |                |               |               |               |               |               |                |               |               |               |                |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |
| Lesson 107    | Worksheet 87   | 11/18/2016    | The bottom label for the graphs should read <b>Length of a Side in Centimeters</b> , not Number of Sides. See attached <b>PDF</b> .  |               |                |               |               |               |               |               |                |               |               |               |                |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |
| Lesson 115    |                | 05/12/2016    | The perimeter for Triangle G is $4-1/2 + 4-1/2 + 3-8/10 = 12-8/10$ .   |               |                |               |               |               |               |               |                |               |               |               |                |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |
| Lesson 116    |                | 03/09/2020    | A paragraph was added on the second page, right above the Worksheet 95 heading: <b>Tell the child that a triangle with an obtuse angle is an obtuse triangle. A triangle with a right angle is a right triangle. A triangle with all acute angles is an acute triangle.</b>  |               |                |               |               |               |               |               |                |               |               |               |                |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |

|                             |            |   |
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| Lesson 124                  | 11/07/2020 | <p>Three graphics on the second page had very light shading and have been replaced.</p>  <p>Make <math>\frac{2}{3}</math> of the circle one color and <math>\frac{1}{3}</math> another color. What fraction of the circle is not colored? <math>\frac{1}{3}</math></p>  <p>Triangles often overlooked.</p>  <p>Rhombus often overlooked.</p> |
| Lesson 125                  | 04/11/2016 | <p>Third figure on the worksheet, second question reads "The small square is what fraction of the medium square? [<b>1/2</b>]".</p>   |
| Lesson 133                  | 05/12/2016 | <p>Problem #11 says "Find <math>6049 - 5195</math>." Answer should be 854 with a check number of (8).</p> $\begin{array}{r} 6049 \text{ (1)} \\ - 5195 \text{ (2)} \\ \hline 854 \text{ (8)} \end{array}$   |
| Lesson 133    Worksheet 110 | 12/27/2017 | <p>Worksheet question #22-45, last row, third problem has been changed from <math>36 \div 6</math> (which is a repeat) to <b><math>36 \div 9</math></b>. Answer is <b>4</b>.</p>  |
| Lesson 139                  | 03/21/2022 | <p>Answer for question #93 regarding the difference between the population of BC and AB should be <b>800,000</b>, not 700,000.</p>  |

## ACTIVITIES FOR TEACHING:

**Ring around the Factors activity.** Have the child do the Ring around the Factors activity. In the center, place six basic number cards face up, in two rows of three each. Around these cards, place 14 multiplication cards, also face up. Place the stocks nearby. See the figure below.



The first player checks the inside cards for pairs with a product that equals an outside card. The player removes the corresponding cards and stacks them on three piles face up. More than one group may be collected during a turn. In the figure above, the player can collect three facts:  $6 \times 1 = 6$ ,  $8 \times 5 = 40$ , and  $2 \times 8 = 16$ . The player then places a centimeter cube in the matching cell of the short multiplication table on the worksheet. See the left figure below.

|    |    |    |    |    |    |    |    |    |     |  |
|----|----|----|----|----|----|----|----|----|-----|--|
| 1  |    |    |    |    |    |    |    |    |     |  |
| 2  | 4  |    |    |    |    |    |    |    |     |  |
| 3  | 6  | 9  |    |    |    |    |    |    |     |  |
| 4  | 8  | 12 | 16 |    |    |    |    |    |     |  |
| 5  | 10 | 15 | 20 | 25 |    |    |    |    |     |  |
|    | 12 | 18 | 24 | 30 | 36 |    |    |    |     |  |
| 7  | 14 | 21 | 28 | 35 | 42 | 49 |    |    |     |  |
| 8  |    | 24 | 32 |    | 48 | 56 | 64 |    |     |  |
| 9  | 18 | 27 | 36 | 45 | 54 | 63 | 72 | 81 |     |  |
| 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |  |

**This table has many of the cells filled in.**

|   |    |    |    |    |    |    |    |  |    |     |
|---|----|----|----|----|----|----|----|--|----|-----|
| 1 |    |    |    |    |    |    |    |  |    |     |
| 2 | 4  |    |    |    |    |    |    |  |    |     |
|   |    | 6  |    |    |    |    |    |  |    |     |
| 4 |    |    |    | 16 |    |    |    |  |    |     |
|   |    |    | 12 |    | 24 |    | 36 |  |    |     |
| 7 | 14 |    | 28 | 35 |    | 49 |    |  |    |     |
|   |    | 16 |    | 32 |    |    |    |  |    |     |
|   |    |    |    |    |    |    |    |  | 81 |     |
|   |    | 20 |    |    |    | 60 |    |  | 90 | 100 |

For the next turn, fill in the missing cards from the respective card stocks. Play continues as the players work together to fill in as many of the cells on the short multiplication table as possible.

If a player is unable to play, she loses her turn. The next player may replace either two basic number cards or up to three multiplication cards. He then takes his turn. Play continues until the basic number card stock is exhausted.

**In conclusion.** Ask: Do you prefer the short multiplication table or the whole multiplication table?

## EXPLANATIONS:

This activity is similar to Ring around the Products game, found in *Math Card Games* book, P32.

Rather than using centimeter cubes, the cell may be colored in.

Once the child is comfortable with this format of the activity and wants to increase the pace or complexity of the activity, use nine basic numbers in the center, three rows of three cards, with 16 multiplication cards around the center.

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

Date: \_\_\_\_\_

**Warm-Up**

Solve these equations.

$___ \div 7 = 7$

$24 \div ___ = 4$

$42 \div 6 = ___$

$8 \times ___ = 32$

$50 \div 5 = ___$

$7 \times ___ = 35$

$(9 \times ___) + (9 \times 3) = 36$

Subtract the same number 10 times. Use check numbers to check your work.

$3790 \quad (1)$

$\underline{- 379} \quad (1)$

 $( )$ 

$\underline{- 379} \quad (1)$

 $( )$ 

$\underline{- 379} \quad (1)$

 $( )$ 

$\underline{- 379} \quad (1)$

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$\underline{- 379} \quad (1)$

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$\underline{- 379} \quad (1)$

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$\underline{- 379} \quad (1)$

 $( )$ 

$\underline{- 379} \quad (1)$

 $( )$ 

$\underline{- 379} \quad (1)$

 $( )$ 

$5620 \quad (4)$

$\underline{- 562} \quad (4)$

 $( )$ 

$\underline{- 562} \quad ( )$

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$\underline{- 562} \quad ( )$

 $( )$ 

$4580 \quad (8)$

$\underline{- 458} \quad (8)$

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$\underline{- 458} \quad ( )$

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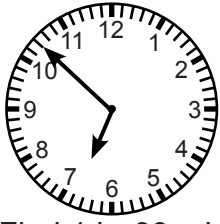
$\underline{- 458} \quad ( )$

 $( )$

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

Date: \_\_\_\_\_

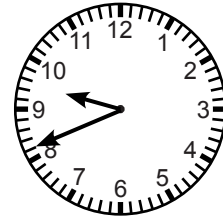
Start at the arrow. Read the instructions below the clock and draw a line from that clock to the next clock. Continue connecting the clocks. Some clocks are extras.



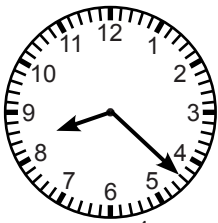
Find 1 hr 39 min later.



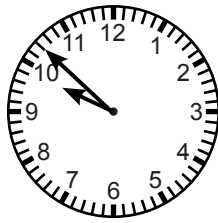
Find 10 min later.



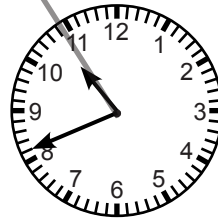
Find 1 hr 30 min later.



Find  $1\frac{1}{2}$  hr later.



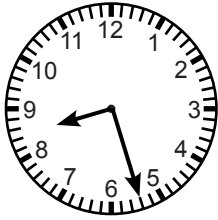
Find 39 min later.



Find 30 min later.



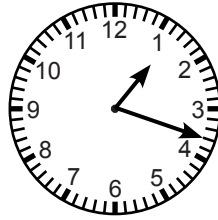
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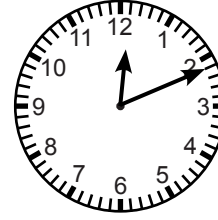
Find 5 min earlier.



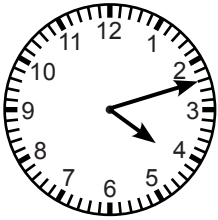
Find 2 hr earlier.



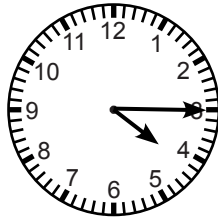
Find 1 hr 7 min earlier.



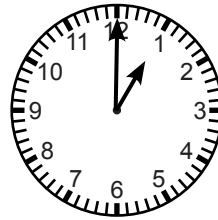
Find 19 min later.



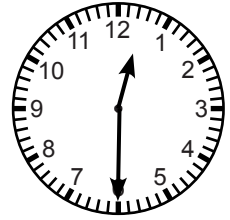
Find 4 hr 15 min later.



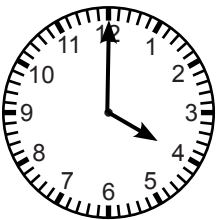
Find 3 min earlier.



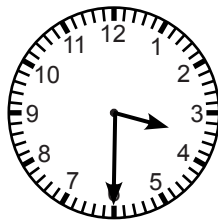
Find  $2\frac{1}{2}$  hr later.



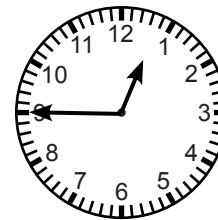
Find half hour later.



Find 15 min later.

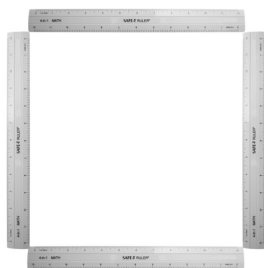


Find 3 quarters hr later.



Find quarter hr later.

## ACTIVITIES FOR TEACHING:

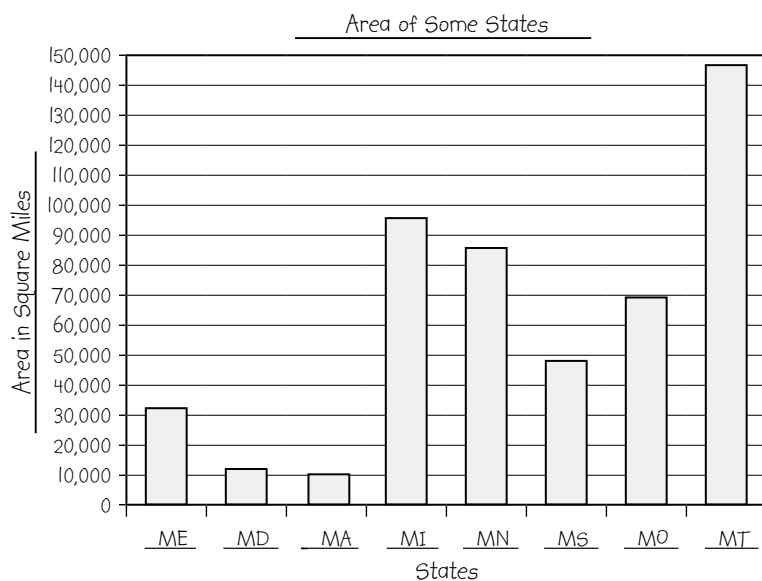


Give him the meter stick and ask: Would a square meter be large enough to measure the area of a state? [no]

**Square miles.** Tell him that in the United States, we usually measure these areas in square miles. Help him relate the length of a mile with a familiar distance. Ask: Can you imagine how large a square mile is? [a square whose sides are a mile long]

**Worksheet 75.** Tell the child the worksheet has a table giving the areas of eight states. He is to make a bar graph to show these areas. Discuss the categories, scales, and titles.

Tell him to complete the worksheet. Solutions are below.



1. Which state has the largest area? **Montana** Does it have the largest population? **no**
2. Which state is 3 times larger than Massachusetts? **Maine**
3. Which state is about half the size of Michigan? **Mississippi**
4. The population graphs keep changing. Do the area graphs also change? **no**
5. Would Missouri and Mississippi fit in Montana at the same time? **yes**
6. How many of the smaller states could fit inside Montana at the same time? **4**

**In conclusion.** Ask: What is area? [amount of space a flat figure takes up] Would you measure how deep a small lake is in miles or square miles? [miles] Would you measure how large a small lake is in miles or square miles? [square miles]

## EXPLANATIONS:

For a child familiar with acres, tell him that 640 acres fit in a square mile.

Worksheet 74 will be needed for reference.

Titles and scales may vary.

If there is additional time following this lesson, play the Constructing a Bar Graph game, found in *Math Card Games* book, A53.

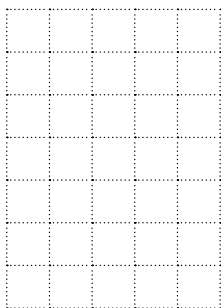


Name: \_\_\_\_\_

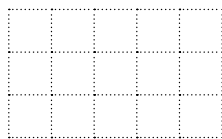
Date: \_\_\_\_\_

**Warm-Up**

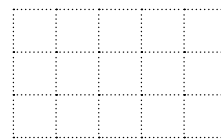
Multiply  $4792 \times 8$ .



Find  $4792 - 2974$ .



Find  $4792 + 2974$ .

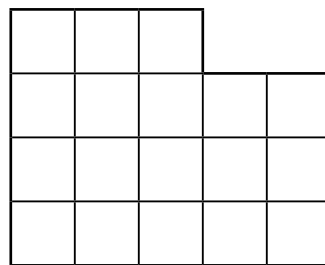


Read the information below and answer the questions.

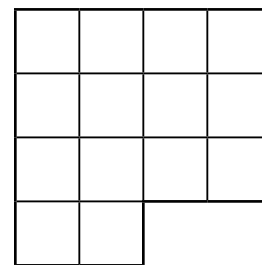
Minnesota is the twelfth largest state among the 50 states in the United States. The state is 408 miles long and 348 miles wide. It covers 86,943 square miles. Of this total, seven thousand three hundred twenty-nine square miles is covered by water. The highest point in Minnesota is Eagle Mountain at 2301 feet. The mountain is 15 miles from the shore of Lake Superior, which is the lowest point at 602 feet above sea level.

1. How many states are larger than Minnesota? \_\_\_\_\_
2. How many states are smaller than Minnesota? \_\_\_\_\_
3. Write the state's area in words. \_\_\_\_\_
4. Round the state's area to the nearest thousand. \_\_\_\_\_
5. Seven thousand three hundred twenty-nine square miles is water, how much is land? \_\_\_\_\_
6. How much longer is the state than it is wide? \_\_\_\_\_
7. What is the difference between the highest and lowest points? \_\_\_\_\_

Minnesota is divided into 87 counties; counties are divided into townships. Townships are square-shaped pieces of land with each side 6 miles long. The maps on the right show two counties in southern Minnesota and their townships.



**Cottonwood County**



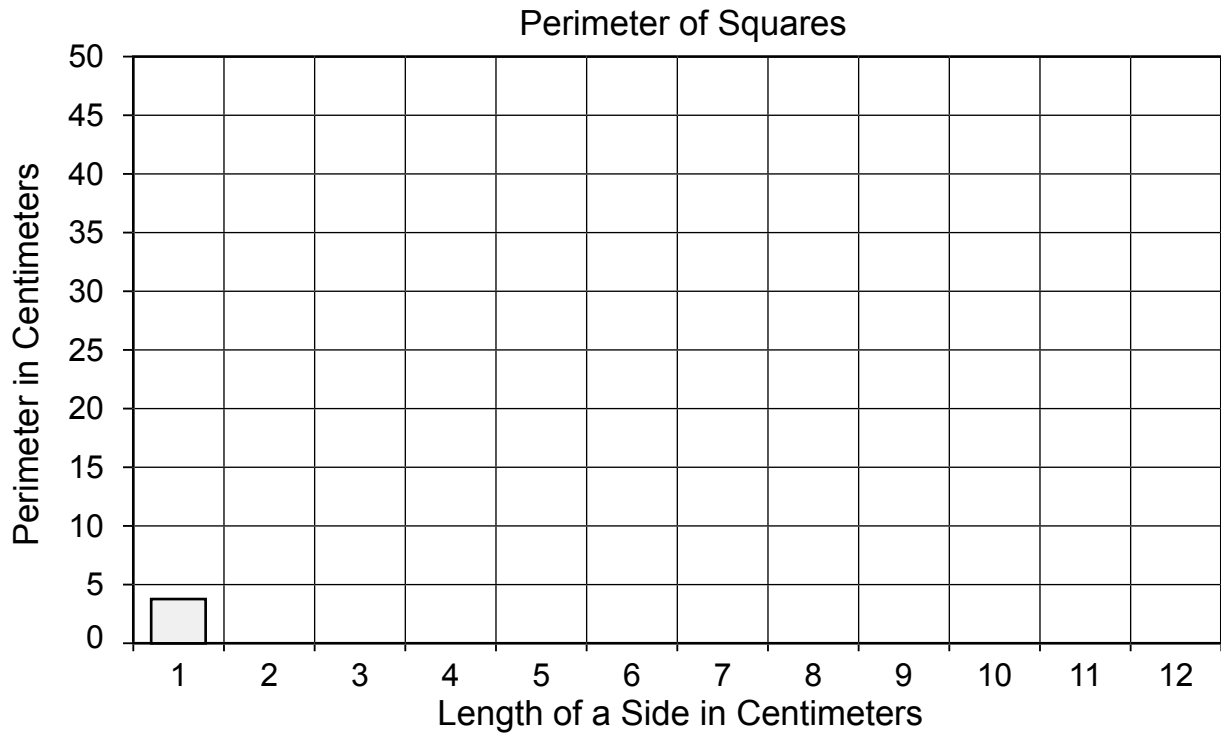
**McLeod County**

8. How many townships are in Cottonwood County? \_\_\_\_\_ in McLeod County? \_\_\_\_\_
9. Find the perimeter of each county. \_\_\_\_\_
10. Find the area of each county. \_\_\_\_\_

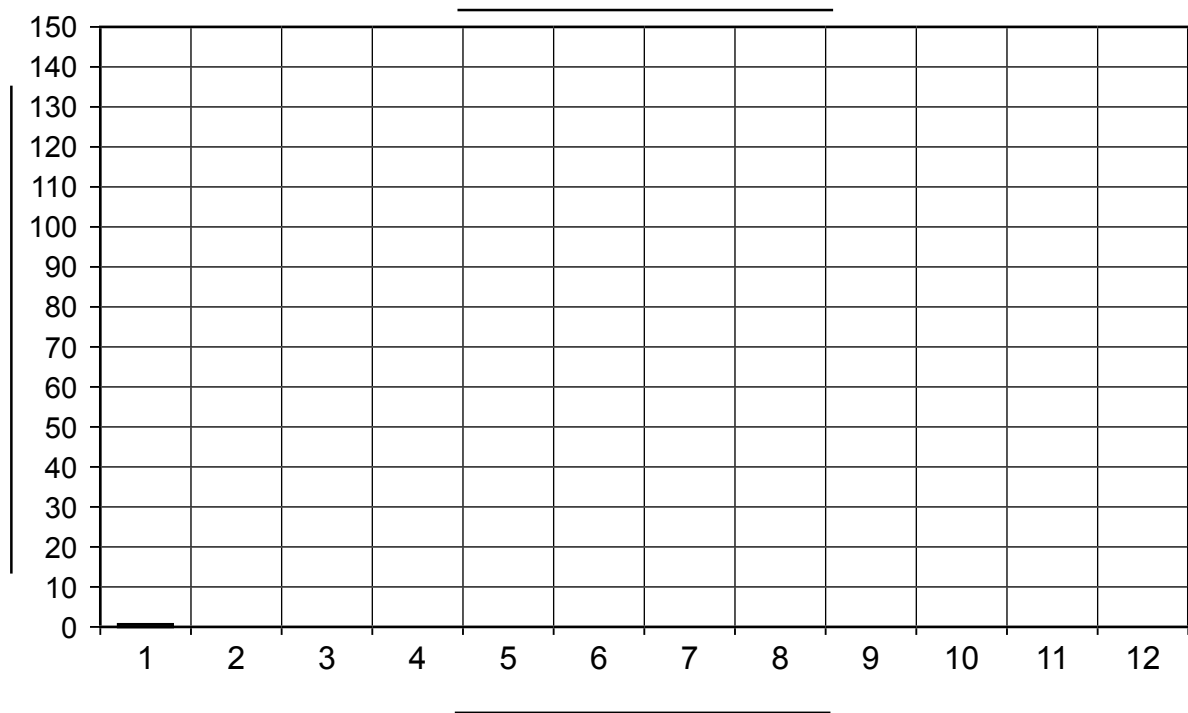
Name: \_\_\_\_\_

Date: \_\_\_\_\_

Make a bar graph showing perimeter of the squares from Worksheet 86.



Make a bar graph showing area of the squares from Worksheet 86.



## 2024

| January |    |    |    |    |    |    | February |    |    |    |    |    |    | March     |    |    |    |    |    |    |
|---------|----|----|----|----|----|----|----------|----|----|----|----|----|----|-----------|----|----|----|----|----|----|
| S       | M  | T  | W  | T  | F  | S  | S        | M  | T  | W  | T  | F  | S  | S         | M  | T  | W  | T  | F  | S  |
|         | 1  | 2  | 3  | 4  | 5  | 6  |          |    |    |    | 1  | 2  | 3  |           |    |    |    |    | 1  | 2  |
| 7       | 8  | 9  | 10 | 11 | 12 | 13 | 4        | 5  | 6  | 7  | 8  | 9  | 10 | 3         | 4  | 5  | 6  | 7  | 8  | 9  |
| 14      | 15 | 16 | 17 | 18 | 19 | 20 | 11       | 12 | 13 | 14 | 15 | 16 | 17 | 10        | 11 | 12 | 13 | 14 | 15 | 16 |
| 21      | 22 | 23 | 24 | 25 | 26 | 27 | 18       | 19 | 20 | 21 | 22 | 23 | 24 | 17        | 18 | 19 | 20 | 21 | 22 | 23 |
| 28      | 29 | 30 | 31 |    |    |    | 25       | 26 | 27 | 28 | 29 |    |    | 24        | 25 | 26 | 27 | 28 | 29 | 30 |
|         |    |    |    |    |    |    |          |    |    |    |    |    |    | 31        |    |    |    |    |    |    |
| April   |    |    |    |    |    |    | May      |    |    |    |    |    |    | June      |    |    |    |    |    |    |
| S       | M  | T  | W  | T  | F  | S  | S        | M  | T  | W  | T  | F  | S  | S         | M  | T  | W  | T  | F  | S  |
|         | 1  | 2  | 3  | 4  | 5  | 6  |          |    |    | 1  | 2  | 3  | 4  |           |    |    |    |    |    | 1  |
| 7       | 8  | 9  | 10 | 11 | 12 | 13 | 5        | 6  | 7  | 8  | 9  | 10 | 11 | 2         | 3  | 4  | 5  | 6  | 7  | 8  |
| 14      | 15 | 16 | 17 | 18 | 19 | 20 | 12       | 13 | 14 | 15 | 16 | 17 | 18 | 9         | 10 | 11 | 12 | 13 | 14 | 15 |
| 21      | 22 | 23 | 24 | 25 | 26 | 27 | 19       | 20 | 21 | 22 | 23 | 24 | 25 | 16        | 17 | 18 | 19 | 20 | 21 | 22 |
| 28      | 29 | 30 |    |    |    |    | 26       | 27 | 28 | 29 | 30 | 31 |    | 23        | 24 | 25 | 26 | 27 | 28 | 29 |
|         |    |    |    |    |    |    |          |    |    |    |    |    |    | 30        |    |    |    |    |    |    |
| July    |    |    |    |    |    |    | August   |    |    |    |    |    |    | September |    |    |    |    |    |    |
| S       | M  | T  | W  | T  | F  | S  | S        | M  | T  | W  | T  | F  | S  | S         | M  | T  | W  | T  | F  | S  |
|         | 1  | 2  | 3  | 4  | 5  | 6  |          |    |    |    | 1  | 2  | 3  | 1         | 2  | 3  | 4  | 5  | 6  | 7  |
| 7       | 8  | 9  | 10 | 11 | 12 | 13 | 4        | 5  | 6  | 7  | 8  | 9  | 10 | 8         | 9  | 10 | 11 | 12 | 13 | 14 |
| 14      | 15 | 16 | 17 | 18 | 19 | 20 | 11       | 12 | 13 | 14 | 15 | 16 | 17 | 15        | 16 | 17 | 18 | 19 | 20 | 21 |
| 21      | 22 | 23 | 24 | 25 | 26 | 27 | 18       | 19 | 20 | 21 | 22 | 23 | 24 | 22        | 23 | 24 | 25 | 26 | 27 | 28 |
| 28      | 29 | 30 | 31 |    |    |    | 25       | 26 | 27 | 28 | 29 | 30 | 31 | 29        | 30 |    |    |    |    |    |
|         |    |    |    |    |    |    |          |    |    |    |    |    |    |           |    |    |    |    |    |    |
| October |    |    |    |    |    |    | November |    |    |    |    |    |    | December  |    |    |    |    |    |    |
| S       | M  | T  | W  | T  | F  | S  | S        | M  | T  | W  | T  | F  | S  | S         | M  | T  | W  | T  | F  | S  |
|         |    | 1  | 2  | 3  | 4  | 5  |          |    |    |    |    | 1  | 2  | 1         | 2  | 3  | 4  | 5  | 6  | 7  |
| 6       | 7  | 8  | 9  | 10 | 11 | 12 | 3        | 4  | 5  | 6  | 7  | 8  | 9  | 8         | 9  | 10 | 11 | 12 | 13 | 14 |
| 13      | 14 | 15 | 16 | 17 | 18 | 19 | 10       | 11 | 12 | 13 | 14 | 15 | 16 | 15        | 16 | 17 | 18 | 19 | 20 | 21 |
| 20      | 21 | 22 | 23 | 24 | 25 | 26 | 17       | 18 | 19 | 20 | 21 | 22 | 23 | 22        | 23 | 24 | 25 | 26 | 27 | 28 |
| 27      | 28 | 29 | 30 | 31 |    |    | 24       | 25 | 26 | 27 | 28 | 29 | 30 | 29        | 30 | 31 |    |    |    |    |
|         |    |    |    |    |    |    |          |    |    |    |    |    |    |           |    |    |    |    |    |    |

## 2025

| January |    |    |    |    |    |    | February |    |    |    |    |    |    | March     |    |    |    |    |    |    |   |
|---------|----|----|----|----|----|----|----------|----|----|----|----|----|----|-----------|----|----|----|----|----|----|---|
| S       | M  | T  | W  | T  | F  | S  | S        | M  | T  | W  | T  | F  | S  | S         | M  | T  | W  | T  | F  | S  |   |
|         |    |    | 1  | 2  | 3  | 4  |          |    |    |    |    |    | 1  |           |    |    |    |    |    |    | 1 |
| 5       | 6  | 7  | 8  | 9  | 10 | 11 | 2        | 3  | 4  | 5  | 6  | 7  | 8  | 2         | 3  | 4  | 5  | 6  | 7  | 8  |   |
| 12      | 13 | 14 | 15 | 16 | 17 | 18 | 9        | 10 | 11 | 12 | 13 | 14 | 15 | 9         | 10 | 11 | 12 | 13 | 14 | 15 |   |
| 19      | 20 | 21 | 22 | 23 | 24 | 25 | 16       | 17 | 18 | 19 | 20 | 21 | 22 | 16        | 17 | 18 | 19 | 20 | 21 | 22 |   |
| 26      | 27 | 28 | 29 | 30 | 31 |    | 23       | 24 | 25 | 26 | 27 | 28 |    | 23        | 24 | 25 | 26 | 27 | 28 | 29 |   |
|         |    |    |    |    |    |    |          |    |    |    |    |    |    | 30        | 31 |    |    |    |    |    |   |
| April   |    |    |    |    |    |    | May      |    |    |    |    |    |    | June      |    |    |    |    |    |    |   |
| S       | M  | T  | W  | T  | F  | S  | S        | M  | T  | W  | T  | F  | S  | S         | M  | T  | W  | T  | F  | S  |   |
|         |    | 1  | 2  | 3  | 4  | 5  |          |    |    |    | 1  | 2  | 3  | 1         | 2  | 3  | 4  | 5  | 6  | 7  |   |
| 6       | 7  | 8  | 9  | 10 | 11 | 12 | 4        | 5  | 6  | 7  | 8  | 9  | 10 | 8         | 9  | 10 | 11 | 12 | 13 | 14 |   |
| 13      | 14 | 15 | 16 | 17 | 18 | 19 | 11       | 12 | 13 | 14 | 15 | 16 | 17 | 15        | 16 | 17 | 18 | 19 | 20 | 21 |   |
| 20      | 21 | 22 | 23 | 24 | 25 | 26 | 18       | 19 | 20 | 21 | 22 | 23 | 24 | 22        | 23 | 24 | 25 | 26 | 27 | 28 |   |
| 27      | 28 | 29 | 30 |    |    |    | 25       | 26 | 27 | 28 | 29 | 30 | 31 | 29        | 30 |    |    |    |    |    |   |
|         |    |    |    |    |    |    |          |    |    |    |    |    |    |           |    |    |    |    |    |    |   |
| July    |    |    |    |    |    |    | August   |    |    |    |    |    |    | September |    |    |    |    |    |    |   |
| S       | M  | T  | W  | T  | F  | S  | S        | M  | T  | W  | T  | F  | S  | S         | M  | T  | W  | T  | F  | S  |   |
|         |    | 1  | 2  | 3  | 4  | 5  |          |    |    |    |    | 1  | 2  |           | 1  | 2  | 3  | 4  | 5  | 6  |   |
| 6       | 7  | 8  | 9  | 10 | 11 | 12 | 3        | 4  | 5  | 6  | 7  | 8  | 9  | 7         | 8  | 9  | 10 | 11 | 12 | 13 |   |
| 13      | 14 | 15 | 16 | 17 | 18 | 19 | 10       | 11 | 12 | 13 | 14 | 15 | 16 | 14        | 15 | 16 | 17 | 18 | 19 | 20 |   |
| 20      | 21 | 22 | 23 | 24 | 25 | 26 | 17       | 18 | 19 | 20 | 21 | 22 | 23 | 21        | 22 | 23 | 24 | 25 | 26 | 27 |   |
| 27      | 28 | 29 | 30 | 31 |    |    | 24       | 25 | 26 | 27 | 28 | 29 | 30 | 28        | 29 | 30 |    |    |    |    |   |
|         |    |    |    |    |    |    | 31       |    |    |    |    |    |    |           |    |    |    |    |    |    |   |
| October |    |    |    |    |    |    | November |    |    |    |    |    |    | December  |    |    |    |    |    |    |   |
| S       | M  | T  | W  | T  | F  | S  | S        | M  | T  | W  | T  | F  | S  | S         | M  | T  | W  | T  | F  | S  |   |
|         |    |    | 1  | 2  | 3  | 4  |          |    |    |    |    |    | 1  |           | 1  | 2  | 3  | 4  | 5  | 6  |   |
| 5       | 6  | 7  | 8  | 9  | 10 | 11 | 2        | 3  | 4  | 5  | 6  | 7  | 8  | 7         | 8  | 9  | 10 | 11 | 12 | 13 |   |
| 12      | 13 | 14 | 15 | 16 | 17 | 18 | 9        | 10 | 11 | 12 | 13 | 14 | 15 | 14        | 15 | 16 | 17 | 18 | 19 | 20 |   |
| 19      | 20 | 21 | 22 | 23 | 24 | 25 | 16       | 17 | 18 | 19 | 20 | 21 | 22 | 21        | 22 | 23 | 24 | 25 | 26 | 27 |   |
| 26      | 27 | 28 | 29 | 30 | 31 |    | 23       | 24 | 25 | 26 | 27 | 28 | 29 | 28        | 29 | 30 | 31 |    |    |    |   |
|         |    |    |    |    |    |    | 30       |    |    |    |    |    |    |           |    |    |    |    |    |    |   |

## 2026

| January |    |    |    |    |    |    | February |    |    |    |    |    |    | March     |    |    |    |    |    |    |
|---------|----|----|----|----|----|----|----------|----|----|----|----|----|----|-----------|----|----|----|----|----|----|
| S       | M  | T  | W  | T  | F  | S  | S        | M  | T  | W  | T  | F  | S  | S         | M  | T  | W  | T  | F  | S  |
|         |    |    |    | 1  | 2  | 3  | 1        | 2  | 3  | 4  | 5  | 6  | 7  | 1         | 2  | 3  | 4  | 5  | 6  | 7  |
| 4       | 5  | 6  | 7  | 8  | 9  | 10 | 8        | 9  | 10 | 11 | 12 | 13 | 14 | 8         | 9  | 10 | 11 | 12 | 13 | 14 |
| 11      | 12 | 13 | 14 | 15 | 16 | 17 | 15       | 16 | 17 | 18 | 19 | 20 | 21 | 15        | 16 | 17 | 18 | 19 | 20 | 21 |
| 18      | 19 | 20 | 21 | 22 | 23 | 24 | 22       | 23 | 24 | 25 | 26 | 27 | 28 | 22        | 23 | 24 | 25 | 26 | 27 | 28 |
| 25      | 26 | 27 | 28 | 29 | 30 | 31 |          |    |    |    |    |    |    | 29        | 30 | 31 |    |    |    |    |
|         |    |    |    |    |    |    |          |    |    |    |    |    |    |           |    |    |    |    |    |    |
| April   |    |    |    |    |    |    | May      |    |    |    |    |    |    | June      |    |    |    |    |    |    |
| S       | M  | T  | W  | T  | F  | S  | S        | M  | T  | W  | T  | F  | S  | S         | M  | T  | W  | T  | F  | S  |
|         |    |    | 1  | 2  | 3  | 4  |          |    |    |    |    | 1  | 2  |           | 1  | 2  | 3  | 4  | 5  | 6  |
| 5       | 6  | 7  | 8  | 9  | 10 | 11 | 3        | 4  | 5  | 6  | 7  | 8  | 9  | 7         | 8  | 9  | 10 | 11 | 12 | 13 |
| 12      | 13 | 14 | 15 | 16 | 17 | 18 | 10       | 11 | 12 | 13 | 14 | 15 | 16 | 14        | 15 | 16 | 17 | 18 | 19 | 20 |
| 19      | 20 | 21 | 22 | 23 | 24 | 25 | 17       | 18 | 19 | 20 | 21 | 22 | 23 | 21        | 22 | 23 | 24 | 25 | 26 | 27 |
| 26      | 27 | 28 | 29 | 30 |    |    | 24       | 25 | 26 | 27 | 28 | 29 | 30 | 28        | 29 | 30 |    |    |    |    |
|         |    |    |    |    |    |    | 31       |    |    |    |    |    |    |           |    |    |    |    |    |    |
| July    |    |    |    |    |    |    | August   |    |    |    |    |    |    | September |    |    |    |    |    |    |
| S       | M  | T  | W  | T  | F  | S  | S        | M  | T  | W  | T  | F  | S  | S         | M  | T  | W  | T  | F  | S  |
|         |    |    | 1  | 2  | 3  | 4  |          |    |    |    |    | 1  |    |           | 1  | 2  | 3  | 4  | 5  |    |
| 5       | 6  | 7  | 8  | 9  | 10 | 11 | 2        | 3  | 4  | 5  | 6  | 7  | 8  | 6         | 7  | 8  | 9  | 10 | 11 | 12 |
| 12      | 13 | 14 | 15 | 16 | 17 | 18 | 9        | 10 | 11 | 12 | 13 | 14 | 15 | 13        | 14 | 15 | 16 | 17 | 18 | 19 |
| 19      | 20 | 21 | 22 | 23 | 24 | 25 | 16       | 17 | 18 | 19 | 20 | 21 | 22 | 20        | 21 | 22 | 23 | 24 | 25 | 26 |
| 26      | 27 | 28 | 29 | 30 | 31 |    | 23       | 24 | 25 | 26 | 27 | 28 | 29 | 27        | 28 | 29 | 30 |    |    |    |
|         |    |    |    |    |    |    | 30       | 31 |    |    |    |    |    |           |    |    |    |    |    |    |
| October |    |    |    |    |    |    | November |    |    |    |    |    |    | December  |    |    |    |    |    |    |
| S       | M  | T  | W  | T  | F  | S  | S        | M  | T  | W  | T  | F  | S  | S         | M  | T  | W  | T  | F  | S  |
|         |    |    |    | 1  | 2  | 3  | 1        | 2  | 3  | 4  | 5  | 6  | 7  |           |    | 1  | 2  | 3  | 4  | 5  |
| 4       | 5  | 6  | 7  | 8  | 9  | 10 | 8        | 9  | 10 | 11 | 12 | 13 | 14 | 6         | 7  | 8  | 9  | 10 | 11 | 12 |
| 11      | 12 | 13 | 14 | 15 | 16 | 17 | 15       | 16 | 17 | 18 | 19 | 20 | 21 | 13        | 14 | 15 | 16 | 17 | 18 | 19 |
| 18      | 19 | 20 | 21 | 22 | 23 | 24 | 22       | 23 | 24 | 25 | 26 | 27 | 28 | 20        | 21 | 22 | 23 | 24 | 25 | 26 |
| 25      | 26 | 27 | 28 | 29 | 30 | 31 | 29       | 30 |    |    |    |    |    | 27        | 28 | 29 | 30 | 31 |    |    |
|         |    |    |    |    |    |    |          |    |    |    |    |    |    |           |    |    |    |    |    |    |

## 2027

| January |    |    |    |    |    |    | February |    |    |    |    |    |    | March     |    |    |    |    |    |    |
|---------|----|----|----|----|----|----|----------|----|----|----|----|----|----|-----------|----|----|----|----|----|----|
| S       | M  | T  | W  | T  | F  | S  | S        | M  | T  | W  | T  | F  | S  | S         | M  | T  | W  | T  | F  | S  |
|         |    |    |    |    | 1  | 2  |          | 1  | 2  | 3  | 4  | 5  | 6  |           | 1  | 2  | 3  | 4  | 5  | 6  |
| 3       | 4  | 5  | 6  | 7  | 8  | 9  | 7        | 8  | 9  | 10 | 11 | 12 | 13 | 7         | 8  | 9  | 10 | 11 | 12 | 13 |
| 10      | 11 | 12 | 13 | 14 | 15 | 16 | 14       | 15 | 16 | 17 | 18 | 19 | 20 | 14        | 15 | 16 | 17 | 18 | 19 | 20 |
| 17      | 18 | 19 | 20 | 21 | 22 | 23 | 21       | 22 | 23 | 24 | 25 | 26 | 27 | 21        | 22 | 23 | 24 | 25 | 26 | 27 |
| 24      | 25 | 26 | 27 | 28 | 29 | 30 | 28       |    |    |    |    |    |    | 28        | 29 | 30 | 31 |    |    |    |
| 31      |    |    |    |    |    |    |          |    |    |    |    |    |    |           |    |    |    |    |    |    |
| April   |    |    |    |    |    |    | May      |    |    |    |    |    |    | June      |    |    |    |    |    |    |
| S       | M  | T  | W  | T  | F  | S  | S        | M  | T  | W  | T  | F  | S  | S         | M  | T  | W  | T  | F  | S  |
|         |    |    |    | 1  | 2  | 3  |          |    |    |    |    | 1  |    |           | 1  | 2  | 3  | 4  | 5  |    |
| 4       | 5  | 6  | 7  | 8  | 9  | 10 | 2        | 3  | 4  | 5  | 6  | 7  | 8  | 6         | 7  | 8  | 9  | 10 | 11 | 12 |
| 11      | 12 | 13 | 14 | 15 | 16 | 17 | 9        | 10 | 11 | 12 | 13 | 14 | 15 | 13        | 14 | 15 | 16 | 17 | 18 | 19 |
| 18      | 19 | 20 | 21 | 22 | 23 | 24 | 16       | 17 | 18 | 19 | 20 | 21 | 22 | 20        | 21 | 22 | 23 | 24 | 25 | 26 |
| 25      | 26 | 27 | 28 | 29 | 30 |    | 23       | 24 | 25 | 26 | 27 | 28 | 29 | 27        | 28 | 29 | 30 |    |    |    |
|         |    |    |    |    |    |    | 30       | 31 |    |    |    |    |    |           |    |    |    |    |    |    |
| July    |    |    |    |    |    |    | August   |    |    |    |    |    |    | September |    |    |    |    |    |    |
| S       | M  | T  | W  | T  | F  | S  | S        | M  | T  | W  | T  | F  | S  | S         | M  | T  | W  | T  | F  | S  |
|         |    |    |    | 1  | 2  | 3  | 1        | 2  | 3  | 4  | 5  | 6  | 7  |           |    |    | 1  | 2  | 3  | 4  |
| 4       | 5  | 6  | 7  | 8  | 9  | 10 | 8        | 9  | 10 | 11 | 12 | 13 | 14 | 5         | 6  | 7  | 8  | 9  | 10 | 11 |
| 11      | 12 | 13 | 14 | 15 | 16 | 17 | 15       | 16 | 17 | 18 | 19 | 20 | 21 | 12        | 13 | 14 | 15 | 16 | 17 | 18 |
| 18      | 19 | 20 | 21 | 22 | 23 | 24 | 22       | 23 | 24 | 25 | 26 | 27 | 28 | 19        | 20 | 21 | 22 | 23 | 24 | 25 |
| 25      | 26 | 27 | 28 | 29 | 30 | 31 | 29       | 30 | 31 |    |    |    |    | 26        | 27 | 28 | 29 | 30 |    |    |
|         |    |    |    |    |    |    |          |    |    |    |    |    |    |           |    |    |    |    |    |    |
| October |    |    |    |    |    |    | November |    |    |    |    |    |    | December  |    |    |    |    |    |    |
| S       | M  | T  | W  | T  | F  | S  | S        | M  | T  | W  | T  | F  | S  | S         | M  | T  | W  | T  | F  | S  |
|         |    |    |    |    | 1  | 2  |          | 1  | 2  | 3  | 4  | 5  | 6  |           |    |    | 1  | 2  | 3  | 4  |
| 3       | 4  | 5  | 6  | 7  | 8  | 9  | 7        | 8  | 9  | 10 | 11 | 12 | 13 | 5         | 6  | 7  | 8  | 9  | 10 | 11 |
| 10      | 11 | 12 | 13 | 14 | 15 | 16 | 14       | 15 | 16 | 17 | 18 | 19 | 20 | 12        | 13 | 14 | 15 | 16 | 17 | 18 |
| 17      | 18 | 19 | 20 | 21 | 22 | 23 | 21       | 22 | 23 | 24 | 25 | 26 | 27 | 19        | 20 | 21 | 22 | 23 | 24 | 25 |
| 24      | 25 | 26 | 27 | 28 | 29 | 30 | 28       | 29 | 30 |    |    |    |    | 26        | 27 | 28 | 29 | 30 | 31 |    |
| 31      |    |    |    |    |    |    |          |    |    |    |    |    |    |           |    |    |    |    |    |    |

2028

| January |    |    |    |    |    |    | February |    |    |    |    |    |    | March     |    |    |    |    |    |    |
|---------|----|----|----|----|----|----|----------|----|----|----|----|----|----|-----------|----|----|----|----|----|----|
| S       | M  | T  | W  | T  | F  | S  | S        | M  | T  | W  | T  | F  | S  | S         | M  | T  | W  | T  | F  | S  |
|         |    |    |    |    |    | 1  |          |    | 1  | 2  | 3  | 4  | 5  |           |    |    | 1  | 2  | 3  | 4  |
| 2       | 3  | 4  | 5  | 6  | 7  | 8  | 6        | 7  | 8  | 9  | 10 | 11 | 12 | 5         | 6  | 7  | 8  | 9  | 10 | 11 |
| 9       | 10 | 11 | 12 | 13 | 14 | 15 | 13       | 14 | 15 | 16 | 17 | 18 | 19 | 12        | 13 | 14 | 15 | 16 | 17 | 18 |
| 16      | 17 | 18 | 19 | 20 | 21 | 22 | 20       | 21 | 22 | 23 | 24 | 25 | 26 | 19        | 20 | 21 | 22 | 23 | 24 | 25 |
| 23      | 24 | 25 | 26 | 27 | 28 | 29 | 27       | 28 | 29 |    |    |    |    | 26        | 27 | 28 | 29 | 30 | 31 |    |
| 30      | 31 |    |    |    |    |    |          |    |    |    |    |    |    |           |    |    |    |    |    |    |
| April   |    |    |    |    |    |    | May      |    |    |    |    |    |    | June      |    |    |    |    |    |    |
| S       | M  | T  | W  | T  | F  | S  | S        | M  | T  | W  | T  | F  | S  | S         | M  | T  | W  | T  | F  | S  |
|         |    |    |    |    |    | 1  |          | 1  | 2  | 3  | 4  | 5  | 6  |           |    |    |    | 1  | 2  | 3  |
| 2       | 3  | 4  | 5  | 6  | 7  | 8  | 7        | 8  | 9  | 10 | 11 | 12 | 13 | 4         | 5  | 6  | 7  | 8  | 9  | 10 |
| 9       | 10 | 11 | 12 | 13 | 14 | 15 | 14       | 15 | 16 | 17 | 18 | 19 | 20 | 11        | 12 | 13 | 14 | 15 | 16 | 17 |
| 16      | 17 | 18 | 19 | 20 | 21 | 22 | 21       | 22 | 23 | 24 | 25 | 26 | 27 | 18        | 19 | 20 | 21 | 22 | 23 | 24 |
| 23      | 24 | 25 | 26 | 27 | 28 | 29 | 28       | 29 | 30 | 31 |    |    |    | 25        | 26 | 27 | 28 | 29 | 30 |    |
| 30      |    |    |    |    |    |    |          |    |    |    |    |    |    |           |    |    |    |    |    |    |
| July    |    |    |    |    |    |    | August   |    |    |    |    |    |    | September |    |    |    |    |    |    |
| S       | M  | T  | W  | T  | F  | S  | S        | M  | T  | W  | T  | F  | S  | S         | M  | T  | W  | T  | F  | S  |
|         |    |    |    |    |    | 1  |          |    | 1  | 2  | 3  | 4  | 5  |           |    |    |    |    | 1  | 2  |
| 2       | 3  | 4  | 5  | 6  | 7  | 8  | 6        | 7  | 8  | 9  | 10 | 11 | 12 | 3         | 4  | 5  | 6  | 7  | 8  | 9  |
| 9       | 10 | 11 | 12 | 13 | 14 | 15 | 13       | 14 | 15 | 16 | 17 | 18 | 19 | 10        | 11 | 12 | 13 | 14 | 15 | 16 |
| 16      | 17 | 18 | 19 | 20 | 21 | 22 | 20       | 21 | 22 | 23 | 24 | 25 | 26 | 17        | 18 | 19 | 20 | 21 | 22 | 23 |
| 23      | 24 | 25 | 26 | 27 | 28 | 29 | 27       | 28 | 29 | 30 | 31 |    |    | 24        | 25 | 26 | 27 | 28 | 29 | 30 |
| 30      | 31 |    |    |    |    |    |          |    |    |    |    |    |    |           |    |    |    |    |    |    |
| October |    |    |    |    |    |    | November |    |    |    |    |    |    | December  |    |    |    |    |    |    |
| S       | M  | T  | W  | T  | F  | S  | S        | M  | T  | W  | T  | F  | S  | S         | M  | T  | W  | T  | F  | S  |
| 1       | 2  | 3  | 4  | 5  | 6  | 7  |          |    |    | 1  | 2  | 3  | 4  |           |    |    |    |    | 1  | 2  |
| 8       | 9  | 10 | 11 | 12 | 13 | 14 | 5        | 6  | 7  | 8  | 9  | 10 | 11 | 3         | 4  | 5  | 6  | 7  | 8  | 9  |
| 15      | 16 | 17 | 18 | 19 | 20 | 21 | 12       | 13 | 14 | 15 | 16 | 17 | 18 | 10        | 11 | 12 | 13 | 14 | 15 | 16 |
| 22      | 23 | 24 | 25 | 26 | 27 | 28 | 19       | 20 | 21 | 22 | 23 | 24 | 25 | 17        | 18 | 19 | 20 | 21 | 22 | 23 |
| 29      | 30 | 31 |    |    |    |    | 26       | 27 | 28 | 29 | 30 |    |    | 24        | 25 | 26 | 27 | 28 | 29 | 30 |
|         |    |    |    |    |    |    |          |    |    |    |    |    |    | 31        |    |    |    |    |    |    |