

PARENT PACKET

Sail into Summer with Math!



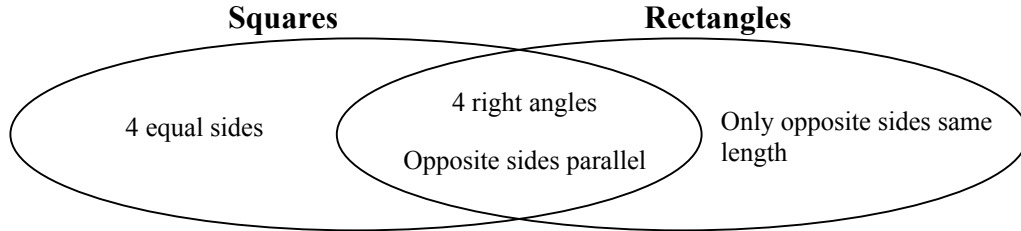
For Students Completing Fourth Grade

This summer math booklet was developed to provide students an opportunity to review grade level math objectives and to improve math performance.

Grade 4 Mathematics Packet Answer Key

Week 1

1. Possible solution:

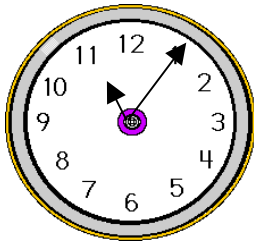


- Since multiplication is repeated addition, explanations should talk about adding one factor to itself the number of times indicated by the second factor. For example, 3×4 means adding 3 to itself for a total of 4 three's, or $3 + 3 + 3 + 3$.
- Check that the perimeter is the distance around the room and the area is the length of the room times the width. The area covered by furniture plus the area not covered by furniture should add up to the total area.
- The circle graph should include all activities for the day, each section should be labeled, and the graph should have a title.
- The answers are: 6043, 7781, 19886, and 1153.

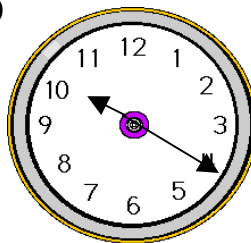
Week 2

- Child should take their current age and add 27 ($2028 - 2001 = 27$).
- Check to see that the shapes are polygons (closed figure with straight lines). Some names children could use – 3 sides = triangle, 4 sides = quadrilateral, rectangle, square, rhombus, or parallelogram, 5 sides = pentagon, 6 sides = hexagon, 7 sides = heptagon, 8 sides = octagon, 10 sides = decagon, and 12 sides = dodecagon.
- Red stripes are $\frac{7}{13}$ of the stripes, white stripes are $\frac{6}{13}$.
-

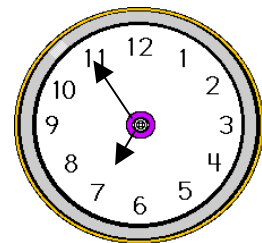
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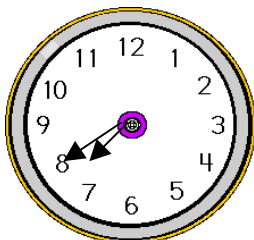
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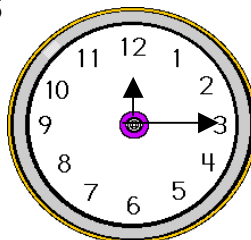
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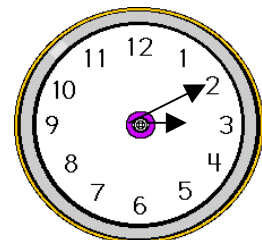
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3:10



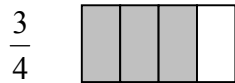
Week 2 Continued

5. The answers are: 9, 8, 8, 0, 8, and 7.
 6. 50 possible ways – check for 10 different ones.

- | | |
|---|---|
| 1 half dollar and 1 penny | 2 quarters and 1 penny |
| 1 quarter, 2 dimes, 1 nickel, 1 penny | 1 quarter, 2 dimes, 6 pennies |
| 1 quarter, 1 dime, 3 nickels, 1 pennies | 1 quarter, 1 dime, 2 nickels, 6 pennies |
| 1 quarter, 1 dime, 1 nickel, 11 pennies | 1 quarter, 1 dime, 16 pennies |
| 1 quarter, 5 nickels, 1 penny | 1 quarter, 4 nickels, 6 pennies |
| 1 quarter, 3 nickels, 11 pennies | 1 quarter, 2 nickels, 16 pennies |
| 1 quarter, 1 nickel, 21 pennies | 1 quarter, 26 pennies |
| 5 dimes, 1 penny | 4 dimes, 2 nickels, 1 penny |
| 4 dimes, 1 nickel, 6 pennies | 4 dimes, 11 pennies |
| 3 dimes, 4 nickels, 1 penny | 3 dimes, 3 nickels, 6 pennies |
| 3 dimes, 2 nickels, 11 pennies | 3 dimes, 1 nickel, 16 pennies |
| 3 dimes, 21 pennies | 2 dimes, 6 nickels, 1 penny |
| 2 dimes, 5 nickels, 6 pennies | 2 dimes, 4 nickels, 11 pennies |
| 2 dimes, 3 nickels, 16 pennies | 2 dimes, 2 nickels, 21 pennies |
| 2 dimes, 1 nickel, 26 pennies | 2 dimes, 31 pennies |
| 1 dime, 8 nickels, 1 pennies | 1 dime, 7 nickels, 6 pennies |
| 1 dime, 6 nickels, 11 pennies | 1 dime, 5 nickels, 16 pennies |
| 1 dime, 4 nickels, 21 pennies | 1 dime, 3 nickels, 26 pennies |
| 1 dime, 2 nickels, 31 pennies | 1 dime, 1 nickels, 36 pennies |
| 1 dime, 41 pennies | 10 nickels, 1 penny |
| 9 nickels, 6 pennies | 8 nickels, 11 pennies |
| 7 nickels, 16 pennies | 6 nickels, 21 pennies |
| 5 nickels, 26 pennies | 4 nickels, 31 pennies |
| 3 nickels, 36 pennies | 2 nickels, 41 pennies |
| 1 nickel, 46 pennies | 51 pennies |

Week 3

1. Practice multiplication facts with flash cards – check your child’s chart and bar graph. Be sure that the bar graph has a title, labeled axes, and a consistent scale.
 2. Check to see that each fraction has the correct number of parts, that the parts are equal sizes, and the correct number of pieces are shaded. For example:



3. One greater is 812,764. One less is 812,762. 1,000 greater is 813,763. 10,000 less is 802,763
 4. 292 possible combinations (Child should have 10):

- | | |
|---|---|
| 2 half dollars | 1 half dollar, 2 quarters |
| 1 half dollar, 1 quarter, 2 dimes, 1 nickel | 1 half dollar, 1 quarter, 2 dimes, 5 pennies |
| 1 half dollar, 1 quarter, 1 dime, 3 nickels | 1 h.d., 1 quarter, 1 dime, 2 nickels, 5 pennies |
| 1 h.d., 1 q., 1 dime, 1 nickel, 10 pennies | 1 h.d., 1 quarter, 1 dime, 15 pennies |
| 1 half dollar, 1 quarter, 5 nickels | 1 half dollar, 1 quarter, 4 nickels, 5 pennies |
| 1 h.d., 1 quarter, 3 nickels, 10 pennies | 1 h.d., 1 quarter, 2 nickels, 15 pennies |
| 1 h.d., 1 quarter, 1 nickel, 20 pennies | 1 h.d., 1 quarter, 25 pennies |
| 1 half dollar, 5 dimes | 1 half dollar, 4 dimes, 2 nickels |

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Week 3 Continued

- 1 half dollar, 4 dimes, 1 nickel, 5 pennies
- 1 half dollar, 3 dimes, 4 nickels
- 1 half dollar, 3 dimes, 2 nickels, 10 pennies
- 1 half dollar, 3 dimes, 20 pennies
- 1 half dollar, 2 dimes, 5 nickels, 5 pennies
- 1 half dollar, 2 dimes, 3 nickels, 15 pennies
- 1 half dollar, 2 dimes, 1 nickel, 25 pennies
- 1 half dollar, 1 dime, 8 nickels
- 1 half dollar, 1 dime, 6 nickels, 10 pennies
- 1 half dollar, 1 dime, 4 nickels, 20 pennies
- 1 half dollar, 1 dime, 2 nickels, 30 pennies
- 1 half dollar, 1 dime, 40 pennies
- 1 half dollar, 9 nickels, 5 pennies
- 1 half dollar, 7 nickels, 15 pennies
- 1 half dollar, 5 nickels, 25 pennies
- 1 half dollar, 3 nickels, 35 pennies
- 1 half dollar, 1 nickel, 45 pennies
- 4 quarters
- 3 quarters, 2 dimes, 5 pennies
- 3 quarters, 1 dime, 2 nickels, 5 pennies
- 3 quarters, 1 dime, 15 pennies
- 3 quarters, 4 nickels, 5 pennies
- 3 quarters, 2 nickels, 15 pennies
- 3 quarters, 25 pennies
- 2 quarters, 4 dimes, 2 nickels
- 2 quarters, 4 dimes, 10 pennies
- 2 quarters, 3 dimes, 3 nickels, 5 pennies
- 2 quarters, 3 dimes, 1 nickel, 15 pennies
- 2 quarters, 2 dimes, 6 nickels
- 2 quarters, 2 dimes, 4 nickels, 10 pennies
- 2 quarters, 2 dimes, 2 nickels, 20 pennies
- 2 quarters, 2 dimes, 30 pennies
- 2 quarters, 1 dime, 7 nickels, 5 pennies
- 2 quarters, 1 dime, 5 nickels, 15 pennies
- 2 quarters, 1 dime, 3 nickels, 25 pennies
- 2 quarters, 1 dime, 1 nickels, 35 pennies
- 2 quarters, 10 nickels
- 2 quarters, 8 nickels, 10 pennies
- 2 quarters, 6 nickels, 20 pennies
- 2 quarters, 4 nickels, 30 pennies
- 2 quarters, 2 nickels, 40 pennies
- 2 quarters, 50 pennies
- 1 quarter, 7 dimes, 5 pennies
- 1 quarter, 6 dimes, 2 nickels, 5 pennies
- 1 quarter, 6 dimes, 15 pennies
- 1 half dollar, 4 dimes, 10 pennies
- 1 half dollar, 3 dimes, 3 nickels, 5 pennies
- 1 half dollar, 3 dimes, 1 nickel, 10 pennies
- 1 half dollar, 2 dimes, 6 nickels
- 1 half dollar, 2 dimes, 4 nickels, 10 pennies
- 1 half dollar, 2 dimes, 2 nickels, 20 pennies
- 1 half dollar, 2 dimes, 30 pennies
- 1 half dollar, 1 dime, 7 nickels, 5 pennies
- 1 half dollar, 1 dime, 5 nickels, 15 pennies
- 1 half dollar, 1 dime, 3 nickels, 25 pennies
- 1 half dollar, 1 dime, 1 nickels, 35 pennies
- 1 half dollar, 10 nickels
- 1 half dollar, 8 nickels, 10 pennies
- 1 half dollar, 8 nickels, 20 pennies
- 1 half dollar, 8 nickels, 30 pennies
- 1 half dollar, 8 nickels, 40 pennies
- 1 half dollar, 50 pennies
- 3 quarters, 2 dimes, 1 nickel
- 3 quarters, 1 dime, 3 nickels
- 3 quarters, 1 dime, 1 nickel, 10 pennies
- 3 quarters, 5 nickels
- 3 quarters, 3 nickels, 10 pennies
- 3 quarters, 1 nickel, 20 pennies
- 2 quarters, 5 dimes
- 2 quarters, 4 dimes, 1 nickel, 5 pennies
- 2 quarters, 3 dimes, 4 nickels
- 2 quarters, 3 dimes, 2 nickels, 10 pennies
- 2 quarters, 3 dimes, 20 pennies
- 2 quarters, 2 dimes, 5 nickels, 5 pennies
- 2 quarters, 2 dimes, 3 nickels, 15 pennies
- 2 quarters, 2 dimes, 1 nickel, 25 pennies
- 2 quarters, 1 dime, 8 nickels
- 2 quarters, 1 dime, 6 nickels, 10 pennies
- 2 quarters, 1 dime, 4 nickels, 20 pennies
- 2 quarters, 1 dime, 2 nickels, 30 pennies
- 2 quarters, 1 dime, 40 pennies
- 2 quarters, 9 nickels, 5 pennies
- 2 quarters, 7 nickels, 15 pennies
- 2 quarters, 5 nickels, 25 pennies
- 2 quarters, 3 nickels, 35 pennies
- 2 quarters, 1 nickel, 45 pennies
- 1 quarter, 7 dimes, 1 nickel
- 1 quarter, 6 dimes, 3 nickels
- 1 quarter, 6 dimes, 1 nickel, 10 pennies
- 1 quarter, 5 dimes, 5 nickels

Week 3 Continued

- | | |
|---|---|
| 1 quarter, 5 dimes, 4 nickels, 5 pennies | 1 quarter, 5 dimes, 3 nickels, 10 pennies |
| 1 quarter, 5 dimes, 2 nickels, 15 pennies | 1 quarter, 5 dimes, 1 nickel, 20 pennies |
| 1 quarter, 5 dimes, 25 pennies | 1 quarter, 4 dimes, 7 nickels |
| 1 quarter, 4 dimes, 6 nickels, 5 pennies | 1 quarter, 4 dimes, 5 nickels, 10 pennies |
| 1 quarter, 4 dimes, 4 nickels, 15 pennies | 1 quarter, 4 dimes, 3 nickels, 20 pennies |
| 1 quarter, 4 dimes, 2 nickels, 25 pennies | 1 quarter, 4 dimes, 1 nickel, 30 pennies |
| 1 quarter, 4 dimes, 35 pennies | 1 quarter, 3 dimes, 9 nickels |
| 1 quarter, 3 dimes, 8 nickels, 5 pennies | 1 quarter, 3 dimes, 7 nickels, 10 pennies |
| 1 quarter, 3 dimes, 6 nickels, 15 pennies | 1 quarter, 3 dimes, 5 nickels, 20 pennies |
| 1 quarter, 3 dimes, 4 nickels, 25 pennies | 1 quarter, 3 dimes, 3 nickels, 30 pennies |
| 1 quarter, 3 dimes, 2 nickels, 35 pennies | 1 quarter, 3 dimes, 1 nickel, 40 pennies |
| 1 quarter, 3 dimes, 45 pennies | 1 quarter, 2 dimes, 11 nickels |
| 1 quarter, 2 dimes, 10 nickels, 5 pennies | 1 quarter, 2 dimes, 9 nickels, 10 pennies |
| 1 quarter, 2 dimes, 8 nickels, 15 pennies | 1 quarter, 2 dimes, 7 nickels, 20 pennies |
| 1 quarter, 2 dimes, 6 nickels, 25 pennies | 1 quarter, 2 dimes, 5 nickels, 30 pennies |
| 1 quarter, 2 dimes, 4 nickels, 35 pennies | 1 quarter, 2 dimes, 3 nickels, 40 pennies |
| 1 quarter, 2 dimes, 2 nickels, 45 pennies | 1 quarter, 2 dimes, 1 nickel, 50 pennies |
| 1 quarter, 2 dimes, 55 pennies | 1 quarter, 1 dime, 13 nickels |
| 1 quarter, 1 dime, 12 nickels, 5 pennies | 1 quarter, 1 dime, 11 nickels, 10 pennies |
| 1 quarter, 1 dime, 10 nickels, 15 pennies | 1 quarter, 1 dime, 9 nickels, 20 pennies |
| 1 quarter, 1 dime, 8 nickels, 25 pennies | 1 quarter, 1 dime, 7 nickels, 30 pennies |
| 1 quarter, 1 dime, 6 nickels, 35 pennies | 1 quarter, 1 dime, 5 nickels, 40 pennies |
| 1 quarter, 1 dime, 4 nickels, 45 pennies | 1 quarter, 1 dime, 3 nickels, 50 pennies |
| 1 quarter, 1 dime, 2 nickels, 55 pennies | 1 quarter, 1 dime, 1 nickel, 60 pennies |
| 1 quarter, 1 dime, 65 pennies | 1 quarter, 15 nickels |
| 1 quarter, 14 nickels, 5 pennies | 1 quarter, 13 nickels, 10 pennies |
| 1 quarter, 12 nickels, 15 pennies | 1 quarter, 11 nickels, 20 pennies |
| 1 quarter, 10 nickels, 25 pennies | 1 quarter, 9 nickels, 30 pennies |
| 1 quarter, 8 nickels, 35 pennies | 1 quarter, 7 nickels, 40 pennies |
| 1 quarter, 6 nickels, 45 pennies | 1 quarter, 5 nickels, 50 pennies |
| 1 quarter, 4 nickels, 55 pennies | 1 quarter, 3 nickels, 60 pennies |
| 1 quarter, 2 nickels, 65 pennies | 1 quarter, 1 nickels, 70 pennies |
| 1 quarter, 75 pennies | 10 dimes |
| 9 dimes, 2 nickels | 9 dimes, 1 nickel, 5 pennies |
| 9 dimes, 10 pennies | 8 dimes, 4 nickels |
| 8 dimes, 3 nickels, 5 pennies | 8 dimes, 2 nickels, 10 pennies |
| 8 dimes, 1 nickel, 15 pennies | 8 dimes, 20 pennies |
| 7 dimes, 6 nickels | 7 dimes, 5 nickels, 5 pennies |
| 7 dimes, 4 nickels, 10 pennies | 7 dimes, 3 nickels, 15 pennies |
| 7 dimes, 2 nickels, 20 pennies | 7 dimes, 1 nickels, 25 pennies |
| 7 dimes, 30 pennies | 6 dimes, 8 nickels |
| 6 dimes, 7 nickels, 5 pennies | 6 dimes, 6 nickels, 10 pennies |
| 6 dimes, 5 nickels, 15 pennies | 6 dimes, 4 nickels, 20 pennies |
| 6 dimes, 3 nickels, 25 pennies | 6 dimes, 2 nickels, 30 pennies |
| 6 dimes, 1 nickels, 35 pennies | 6 dimes, 40 pennies |

Week 3 Continued

- 5 dimes, 10 nickels
- 5 dimes, 8 nickels, 10 pennies
- 5 dimes, 6 nickels, 20 pennies
- 5 dimes, 4 nickels, 30 pennies
- 5 dimes, 2 nickels, 40 pennies
- 5 dimes, 50 pennies
- 4 dimes, 11 nickels, 5 pennies
- 4 dimes, 9 nickels, 15 pennies
- 4 dimes, 7 nickels, 25 pennies
- 4 dimes, 5 nickels, 35 pennies
- 4 dimes, 3 nickels, 45 pennies
- 4 dimes, 1 nickels, 55 pennies
- 3 dimes, 14 nickels
- 3 dimes, 12 nickels, 10 pennies
- 3 dimes, 10 nickels, 20 pennies
- 3 dimes, 8 nickels, 30 pennies
- 3 dimes, 6 nickels, 40 pennies
- 3 dimes, 4 nickels, 50 pennies
- 3 dimes, 2 nickels, 60 pennies
- 3 dimes, 70 pennies
- 2 dimes, 15 nickels, 5 pennies
- 2 dimes, 13 nickels, 15 pennies
- 2 dimes, 11 nickels, 25 pennies
- 2 dimes, 9 nickels, 35 pennies
- 2 dimes, 7 nickels, 45 pennies
- 2 dimes, 5 nickels, 55 pennies
- 2 dimes, 3 nickels, 65 pennies
- 2 dimes, 1 nickel, 75 pennies
- 1 dime, 18 nickels
- 1 dime, 16 nickels, 10 pennies
- 1 dime, 14 nickels, 20 pennies
- 1 dime, 12 nickels, 30 pennies
- 1 dime, 10 nickels, 40 pennies
- 1 dime, 8 nickels, 50 pennies
- 1 dime, 6 nickels, 60 pennies
- 1 dime, 4 nickels, 70 pennies
- 1 dime, 2 nickels, 80 pennies
- 1 dime, 90 pennies
- 19 nickels, 5 pennies
- 17 nickels, 15 pennies
- 15 nickels, 25 pennies
- 13 nickels, 35 pennies
- 11 nickels, 45 pennies
- 9 nickels, 55 pennies
- 7 nickels, 65 pennies
- 5 dimes, 9 nickels, 5 pennies
- 5 dimes, 7 nickels, 15 pennies
- 5 dimes, 5 nickels, 25 pennies
- 5 dimes, 3 nickels, 35 pennies
- 5 dimes, 1 nickel, 45 pennies
- 4 dimes, 12 nickels
- 4 dimes, 10 nickels, 10 pennies
- 4 dimes, 8 nickels, 20 pennies
- 4 dimes, 6 nickels, 30 pennies
- 4 dimes, 4 nickels, 40 pennies
- 4 dimes, 2 nickels, 50 pennies
- 4 dimes, 60 pennies
- 3 dimes, 13 nickels, 5 pennies
- 3 dimes, 11 nickels, 15 pennies
- 3 dimes, 9 nickels, 25 pennies
- 3 dimes, 7 nickels, 35 pennies
- 3 dimes, 5 nickels, 45 pennies
- 3 dimes, 3 nickels, 55 pennies
- 3 dimes, 1 nickels, 65 pennies
- 2 dimes, 16 nickels
- 2 dimes, 14 nickels, 10 pennies
- 2 dimes, 12 nickels, 20 pennies
- 2 dimes, 10 nickels, 30 pennies
- 2 dimes, 8 nickels, 40 pennies
- 2 dimes, 6 nickels, 50 pennies
- 2 dimes, 4 nickels, 60 pennies
- 2 dimes, 2 nickels, 70 pennies
- 2 dimes, 80 pennies
- 1 dime, 17 nickels, 5 pennies
- 1 dime, 15 nickels, 15 pennies
- 1 dime, 13 nickels, 25 pennies
- 1 dime, 11 nickels, 35 pennies
- 1 dime, 9 nickels, 45 pennies
- 1 dime, 7 nickels, 55 pennies
- 1 dime, 5 nickels, 65 pennies
- 1 dime, 3 nickels, 75 pennies
- 1 dime, 1 nickel, 85 pennies
- 20 nickels
- 18 nickels, 10 pennies
- 16 nickels, 20 pennies
- 14 nickels, 30 pennies
- 12 nickels, 40 pennies
- 10 nickels, 50 pennies
- 8 nickels, 60 pennies
- 6 nickels, 70 pennies

Week 3 Continued

5 nickels, 75 pennies
 3 nickels, 85 pennies
 1 nickel, 95 pennies

4 nickels, 80 pennies
 2 nickels, 90 pennies
 100 pennies

- Most predictions should be 5 heads and 5 tails, as a coin is fair and should come up heads about half of the time and tails about half of the time. Check to see if the prediction matched what actually happened (It may not!).
- Check to see if the answers are reasonable based on the actual measurements.

Week 4

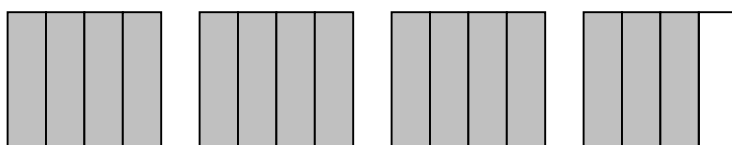
- Horizontal lines are parallel to the horizon (---), vertical lines are perpendicular to the horizon (|), perpendicular lines meet at right angles (horizontal lines and vertical lines meet at right angles), intersecting lines meet in one point (X), parallel lines never meet (||).
- The decimals are 5.02, 5.03, 5.04, 5.05, 5.06, 5.07, 5.08, and 5.09.
- The answers are: 112, 726, 1000, 31200, 8400, and 0.
- Check that your child has a circle graph, a bar graph, and a line graph. A circle graph shows the percentage for different categories when there is only one choice, a bar graph shows total numbers of items, and a line graph shows continuous data.
- There are 10 minutes in $\frac{1}{6}$ of an hour, 20 minutes in $\frac{1}{3}$ of an hour, 30 minutes in $\frac{1}{2}$ of an hour, and 15 minutes in $\frac{1}{4}$ of an hour.
- In order from least to greatest: $\frac{1}{4}, \frac{1}{2}, \frac{2}{3}, \frac{5}{6}, 1$.

Week 5

- Taylor has 3 dimes and 1 nickel.
- Home to school – kilometers, Room – meters, Pencil – centimeters, Pool – meters, Bicycle – centimeters or meters, Vacation – kilometers
- Check where the jumps are made. They should be at $\frac{1}{4}, \frac{1}{3}, \frac{1}{2}, \frac{2}{3},$ and $\frac{3}{4}$.
- Check to be sure that the table and graph show the same data. Be sure that the graph has a title, labeled axes, and even intervals on the scale.
- The answers are: 1894, 855, 843, 542.

Week 6

- The numbers in order from least to greatest are 1,023 – 1,243 – 1,423 – 10,243 – 102,043.
- There is a soccer ball and a car in both Meghan’s and Marc’s sets. The rocket ship and magnifying glass are in Brian’s set but not in Meghan’s or Marc’s set.
- The picture could look like:



which is the same as $3\frac{3}{4}$.

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- The answers are: 7300, 1000, 8100, 5000, 400, and 600.
- Check to see that the total is less than \$5.00 and that the change from \$5.00 is correct.
- The answers are: 22,284 – 72,588 – 368,872 – 70,560
919 remainder 2 – 887 – 1,619 remainder 4 – 1,503 remainder 1

Week 7

- Check that your child makes the measurement correctly (especially if you are planning to eat the cookies!).
- The typical prediction should be 4 times $\left(\frac{1}{6}\right)$ of the number of times rolled. Check to see how close your child is in his or her rolls.
- The answers are: \$3.50, \$0.83, \$2.65, \$6.35, \$10.30, \$21.21, \$67.50, and \$343.00.
- Lauren opened to pages 33 and 34.
- A circle has an infinite (an unending) number of lines of symmetry. This is because no matter how a circle is turned, or rotated, it is the exact same shape.
- Check your child's comic about time.

Week 8

- The answers are:

12,221	1,656	14,700
43 remainder 3,053	90 remainder 7	378
107	14,628	25,666
22,500	1,000	109
- The answers are: $\frac{21}{5} = 4\frac{1}{5}$, $\frac{17}{3} = 5\frac{2}{3}$, $\frac{14}{6} = 2\frac{2}{6} = 2\frac{1}{3}$, $\frac{28}{3} = 9\frac{1}{3}$
- Check the bar graph to see if it is accurate and includes a title, proper scale, and labeled axes.
- Check to see if the number of miles traveled on vacation is reasonable. Ask your child how he or she determined the answer.
- Check to see that the robot drawn is symmetrical (a mirror image from the line of symmetry).

Problem Solving

- The picture should show 10 crabs with 8 legs and 2 pincers each.
- There are 21 three person tables and 9 two person tables.
- The order is
Stage Moore-Vernon's Graham LeMaster Brown
- It will take 20 days for the oriole to travel 1,000 miles. Children should divide the distance by the number of miles per day to determine the number of days needed.
- There were 36 petals to begin. $\frac{1}{3}$ of the petals feel off after two days, or 12 petals, leaving 24.
The following day, $\frac{1}{4}$ of the remaining petals feel off, or 6, leaving 18 remaining. The next day, $\frac{1}{2}$, or 9, feel off. There were 9 petals remaining on the flowers.
- You can make 24 possible numbers. The smallest number is 3,789 and the largest is 9,873.
- There were 36 possible sundaes.
- It will be 15 days before Patrick and Brendon play on the same field again.