

Summer Math Skills

The following math activities are provided to help your child review skills that were learned in 4th grade. Students must complete all of the activities in order to be eligible for the incentive. Please complete the each activity by writing your answer clearly and by showing your work on your own paper. Students will turn these activities in during the first week of school in order to receive credit. These activities are an excellent review of 4th grade skills and are from Macmillan/McGraw-Hill.

Summer Skills

Playing in the Parks

Many coastal parks have upland areas for picnicking and playing. Submerged areas are used for swimming, boating, snorkeling, and scuba diving.



1. Coral Reef Park is one of the most popular parks for viewing coral and underwater wildlife. There are 60,124.31 submerged acres in the park. Write the number in expanded form.

2. Coral Reef Park also includes 2,960.22 upland acres. Write the number of acres in word form.

3. How many more submerged acres than upland acres are there at Coral Reef Park?

4. Fisher Island Park offers 1,507.13 acres of submerged park. How many more submerged acres are in Coral Reef Park than in Fisher Island Park?



5. Inlet Park has 726.54 acres of upland park and 143.14 acres of submerged park. How many more acres of upland park are there?

6. Write the number of upland acres at Inlet Park in word form. Then write it in expanded form.

7. How many upland acres are in Inlet Park and Coral Reef Park combined?

8. How many submerged acres are in Inlet Park and Coral Reef Park combined?

9. About how many times more submerged acres are there than upland acres in the two parks combined?

Summer Skills

Recipe

Jodi made a picnic lunch. She made crab cakes using the ingredients below:

Crab Cakes

| | |
|--|--|
| 1 pound crabmeat | 3 tablespoons minced parsley |
| 2 shallots minced | $\frac{1}{4}$ cup dry bread crumbs |
| $\frac{1}{2}$ medium red bell pepper | $1\frac{1}{2}$ teaspoons seafood seasoning |
| $\frac{1}{2}$ medium green bell pepper | $\frac{1}{4}$ teaspoon ground pepper |

1. The crabmeat was packaged in ounces. How many ounces of crabmeat should Jodi buy?

2. Jodi lost her $\frac{1}{4}$ -cup measuring cup. She knows that one cup is equal to 16 tablespoons. How many tablespoons of breadcrumbs should Jodi use?

3. Three teaspoons equals 1 tablespoon. How many teaspoons of minced parsley should Jodi use?

4. Jodi also wants to make a salad for her family. Should she measure the salad oil in cups or gallons?

Ocean World Animals

These animals can be found at Ocean World.

| Animal | Average Length |
|--------------------|----------------|
| American Alligator | 3.3 meters |
| Sea Turtle | 121 cm |
| Aldabra Tortoise | 122 cm |
| Carpet Python | 2.4 m |
| Nile Crocodile | 5 m |

5. What is the length, in centimeters, of the Nile crocodile?

6. What is the length, in meters, of the sea turtle?

7. How many more centimeters is the Nile crocodile than the Aldabra tortoise?

8. How many more centimeters is the American alligator than the carpet python?

Summer Skills

Happy Land Park



Happy Land Park offers rides and shows for children and adults. Look carefully at the park's sign.

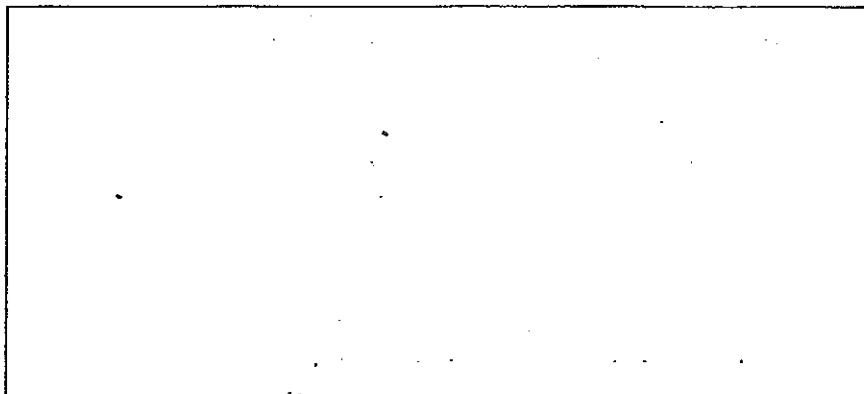
1. Name two closed shapes used in the Happy Land sign.

2. Suppose the radius of the Ferris wheel at the park is 50 feet. What is the diameter of the Ferris wheel?

3. Which two rides have a circle in their shapes?

4. Suppose the park's entrance sign is 10 feet wide by 15 feet long. What is the area of the sign?

5. Sketch a reflection of the park entrance in the box below.



6. When the sign is reflected, which of the shapes are congruent?

7. Suppose you created a reflection of the Ferris wheel. Would both pictures look exactly the same? Explain your thinking.

8. If the entrance sign were reflected, what letters would appear exactly the same?

Day Camp

At Pineview Day Camp Challenge, campers are grouped in teams. Campers are given colored shirts to wear during the games; each team wears a different color. Use the table to answer problems 5–8.

| | | | | |
|-------------------------|----|----|----|----|
| Number of Teams | 2 | 4 | 6 | 8 |
| Number of Shirts Needed | 14 | 28 | 42 | 63 |

5. What is the relationship between the number of teams and the number of shirts needed?

6. Write an expression to represent the number of shirts needed for 6 teams.

7. How many shirts would be needed for 5 teams?

8. Suppose the number of campers per team changed to 8. Fill in the table below using this information.

| | | | | |
|-------------------------|---|---|---|---|
| Number of Teams | 2 | 4 | 6 | 8 |
| Number of Shirts Needed | | | | |

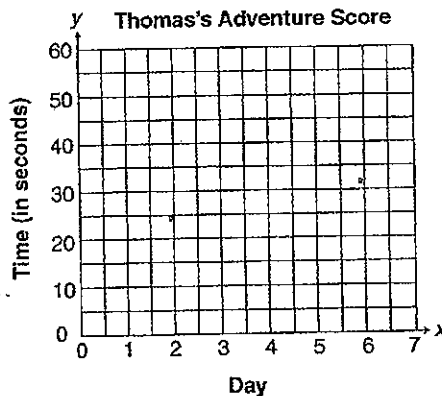
Summer Skills

Head, Heart, Hands, and Health

The Farmdale 4-H Center offers summer educational programs for children of all ages. One of the most popular programs is the Challenge Adventure Course. Working through the maze of ropes, platforms, trees, and logs helps children develop self-confidence and increases their coordination and physical ability.

1. Thomas was spending a week at the 4-H center. During that time, he climbed the Challenge Adventure Course every day. His times are shown in the table below. Finish the line graph to show Thomas's progress in this section of the course.

| | |
|-------|---------|
| Day 1 | 53 sec. |
| Day 2 | 58 sec. |
| Day 3 | 46 sec. |
| Day 4 | 49 sec. |
| Day 5 | 52 sec. |
| Day 6 | 47 sec. |
| Day 7 | 45 sec. |



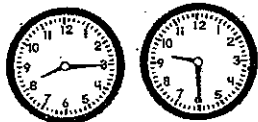
2. How did Thomas's score change during the week?

3. What is the range of Thomas's scores?

Center Scheduling

The 4-H center schedules activity periods throughout the day. Campers move from activity to activity so they are able to practice many skills.

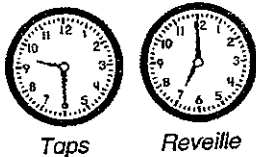
4. The clocks below show the starting time and the ending time for the first activity period. How long is the first activity period?



5. The clock below shows the time the second activity period starts. Campers use the time in between periods to move from one activity area to another. How long do the campers have to move between the first and second activity periods?



6. Each night, the camp plays *Taps* on the PA system. Every morning, the camp plays *Reveille*. The clocks below show the times for *Taps* and *Reveille*. How much time passes between the two bugle calls?



Summer Math Skills Answer Key

Playing in the Parks

1. $600,000 + 100 + 20 + 4 + 0.3 + 0.01$; 2. Two thousand, nine hundred sixty and twenty-two hundredths; 3. 57,164.09 4. 58,617.18 acres; 5. 583.4 acres; 6. Seven hundred twenty-six and fifty-four hundredths $700 + 20 + 6 + 0.04$; 7. 3,686.76 acres; 8. 60,267.45; 9. about 15 times more

Recipe

1. 16 ounces; 2. 4 tablespoons; 3. 9 teaspoons; 4. cups

Ocean World Animals

5. 500 cm; 6. 1.21 m; 7. 378 cm; 8. 90cm

Happy Land Park

1. possible answer: circle, square; 2. 100 square feet; 3. Ferris wheel, Carousel; 4. 150 square feet; 5. check drawings; 6. all shapes will be congruent; 7. no, the wheel is flattened and not fully round like in a circle; 8. H, A, Y

Day Camp

5. multiply by 7; 6. 6×7 ; 7. 35 shirts; 8. 16; 32; 48; 64

Head, Heart, Hands, Health

1. check graph; 2. possible answer: His score went up and down a little during the week, but overall it dropped; 3. 13 seconds

Center Scheduling

4. 1 hour, 15 minutes; 5. 10 minutes; 6. 9 hours, 30 minutes