

1. The Grade 4 classes went on a field trip to the Nature Park. Bus fare was \$2.00, park admission was \$2.95, lunch was \$1.75. About how much is the cost for one student?

$$\mathbf{\$2.00 + \$2.95 + \$1.75 = \$6.70 \text{ so about } \$7.00}$$

2. The parking lot at the Nature Park has 10 rows. There are 26 parking spaces in each row. On the day of the trip, 137 spaces were empty. How many cars were in the lot?

$$\mathbf{10 \text{ rows of } 26 \text{ spaces} = 260 \text{ spaces. } 260 \text{ (spaces in total)} - 137 \text{ (empty spaces)} = 123 \text{ spaces with cars in them.}$$

3. There were 27 students on the field trip. One parent volunteer was needed for every 4 students. How many parent volunteers were needed for the field trip?

There would be 6 groups of 4 and 1 group of 3 so 7 parents would be needed.

4. To take pictures at the park, a parent bought batteries for his camera. His change from a twenty-dollar bill was \$4.35. How much did the batteries cost?

$$\begin{array}{r} 20.00 \\ - 4.35 \\ \hline 15.65 \end{array}$$

5. On the trail to the Nature House, the students crossed a bridge.

* Each step Marc took was about 46 cm long.

* The length of the bridge was 6 m.

About how many steps were needed for Marc to cross the bridge?

There are 600 cm in 6 m, so 10 steps would equal 460 cm. Then by adding groups of 46 we find that 3 groups equal 138 cm. He wouldn't quite be over the bridge so he'd need to take 1 more step. That means he would take 10 steps + 3 steps + 1 step or 14 steps.

6. The Nature Park has four rabbits with the following masses:

Rag: 640 g Tag: 1020 g Benji: 993 g Bobtail: 830 g

Which rabbit has a mass closest to 1 kg?

1 kg is equal to 1000 g. Benji's mass is within 7 g of 1 kg.

7. At the Nature Park, there are 2 oak trees for every 7 cedar trees. If there are 6 oak trees, how many trees are cedars?

There are 3 groups of 2 oak trees, so there are 3 groups of 7 cedar trees, which equals 21 cedar trees.

8. If a 10 kg box and two baby raccoons weigh the same as a 14 kg box and the two baby raccoons have the same mass, what is the mass of one baby raccoon?

Let x stand for the mass of a raccoon, so $2x$ is the mass of two raccoons.

$$\begin{aligned}2x + 10 &= 14 \\2x + 10 - 10 &= 14 - 10 \\2x &= 4 \\ \frac{2x}{2} &= \frac{4}{2}\end{aligned}$$

$x = 2$, each baby raccoon has a mass of 2 kg.

Probably a simpler way is to take away the 10 kg box leaving just the two raccoons and at the same time taking 10 kg from the 14 kg box, leaving it weighing 4 kg. This means that 2 raccoons equal 4 kg. Divide both by 2 and 1 raccoon will equal 2 kg.

9. The Gift Shop was having a sale. On the first day, a package of greeting cards cost \$4. Then, the price was reduced each day by half. How much did the cards cost on the 4th day?

Day 1	\$4.00
Day 2	\$2.00
Day 3	\$1.00
Day 4	\$0.50

On the 4th day the cards cost 50 cents.

10. Ravi counted 30 squirrels in the park. Three out of every five squirrels were grey. How many squirrels were grey?

There are 6 groups of five squirrels. That means that there are 6 groups of 3 grey squirrels, or 18 grey squirrels.

11. Last year the Nature Park had 30 480 visitors. What is this number in word form?

Thirty thousand, four hundred, eighty.

12. Brian made Fun Fair posters at home. He made 3 posters each day of the week. How many posters will he have made in 2 weeks?

3 (posters) x 7 (days in a week) x 2 (weeks)

$$3 \times 7 \times 2 = 42$$

13. Ian worked to earn money to spend at the Fun Fair.

* He earned 50¢ the first week.

* Each week afterward, he earned 10¢ more than the week before.

How much money was he able to earn in 6 weeks?

Week 1 = 50¢

Week 2 = 60¢

Week 3 = 70¢

Week 4 = 80¢

Week 5 = 90¢

Week 6 = 100¢ (or \$1.00)

$$50 + 60 + 70 + 80 + 90 + 100 = 450¢ \text{ or } \$4.50$$

14. Mrs. Kelton bought the 6th ticket for the cake raffle. The first four tickets were numbered 1000, 1003, 1007 and 1012 and this pattern continued. What number was on the 6th ticket?

The pattern is +3, +4, +5 so the fifth ticket will be + 6 or 1018, and the sixth ticket will be + 7 or 1025

1000, 1003, 1007, 1012, 1018, 1025

15. Parents donated 138 prizes for the Silent Auction. They wanted to arrange about the same number of prizes on each of the 9 tables.

About how many prizes did they put on each table?

138 divided by 9 = 15 per table with 3 left over so they put about 15 prizes on each of the 9 tables.

16. There were 240 girls and 245 boys at the Fun Fair.
To the nearest hundred, how many students were there?

$240 + 245 = 485$. 485 rounded to the nearest hundred would be 500.

17. During the Fun Fair, 396 balloons were given away. There were 149 green balloons and 138 yellow balloons. The rest were red.

How many balloons were red?

$396 - 149 = 247$. $247 - 138 = 109$. There were 109 red balloons.

18. At the end of the Fun Fair, there was a lucky draw. The principal drew the winning ticket. If the winning ticket:

- was greater than 500
- was an even number
- had no repeating digits

Which of the following could have been the winning ticket number?

350, 531, 578, 644

The numbers that are greater than 500 are 578 and 644. These two numbers are also both even numbers. The winning ticket number can't be 644 because it has a repeating digit (4)

19. The Fun Fair lasted for 5 h 15 min. It ended at 14:45.
At what time had the Fun Fair started?

The Fun Fair ended at 14:45. Let's subtract the 15 minutes first so we're at 14:30 with 5 hours left. If we subtract the 5 hours we are at 9:30 so the Fun Fair started at 9:30 and finished at 14:45 (which is the same as 2:45)