Name: .... Class: ....

Word problems on fractions of a number: unit fractions

1. Yesterday, Angie's mother took her to the park. There were about 30 children in the park. One - fifth of them were on a roller coaster. How many children were on the roller coaster?

2. If there are 24 hours in a day and charles takes a nap for one - twelfth of the day, how much time does he spend taking a nap in a day?

3. Sheldon collected 68 marbles but gave $\frac{1}{2}$ of them to his younger brother, walters. How many marbles did he give to walters?

mathskills4kids

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Word problems on fractions of a number: unit fractions

1. Yesterday, Angie's mother took her to the park. There were about 30 children in the park. One - fifth of them were on a roller coaster. How many children were on the roller coaster?

   Total number of children in the park = 30

   Fraction of children on a roller coaster = (one - fifth) $\frac{1}{5}$

   So, number of children on the roller coaster = $\frac{1}{5}$ of the total children in the park

   $= \frac{1}{5}$ of 30 $= \frac{1 \times 30}{5}$

   $= 6$

   Therefore, 6 children were on the roller coaster.

2. If there are 24 hours in a day and charles takes a nap for one - twelfth of the day, how much time does he spend taking a nap in a day?

   Total number of hours in a day = 24

   Fraction of the day he spend taking a nap = $\frac{1}{12}$

   So, number of hours he spend napping = $\frac{1}{12}$ of the day

   $= \frac{1}{12}$ of 24 $= \frac{2 \times 12}{1 \times 12}$

   $= 2$

   Therefore, he spend 2 hours napping in a day

3. Sheldon collected 68 marbles but gave $\frac{1}{2}$ of them to his younger brother, walters. How many marbles did he give to walters?

   Total number of marbles = 68

   Fraction of marbles given to Walters = $\frac{1}{2}$

   So, number of marbles he gave to Walters = $\frac{1}{2}$ of the total marbles

   $= \frac{1}{2}$ of 68 $= \frac{34 \times 2}{1 \times 2}$

   $= 34$

   Therefore, he gave 34 marbles to walters.