

Finding Estimates and Evaluating Answers

Home Link 4-2

NAME _____

DATE _____

TIME _____

Write an estimate and show your thinking. Solve using a calculator. Check to see that your answer is reasonable.



Number models are sample answers.

- ① Alice sleeps an average of 9 hours per night. A cat can sleep up to 20 hours per day. About how many more hours does a cat sleep in 1 month than Alice?

Estimate: $20 * 30 = 600; 10 * 30 = 300;$
 $600 - 300 = 300$

Answer: About 330 more hours per month

Is your answer reasonable? _____ How do you know? _____

Answers vary.

- ② Koalas sleep about 22 hours a day. Pandas sleep about 10 hours a day. About how many more hours does a typical koala sleep in 1 year than a typical panda?

Estimate: $(20 * 400) - (10 * 400) = 4,000$

Answer: About 4,380 more hours per year

Is your answer reasonable? _____ How do you know? _____

Answers vary.

- ③ There are 30 Major League Baseball (MLB) teams and 32 National Football League (NFL) teams. The expanded roster for MLB teams is 40 players and it is 53 for NFL teams. How many more players are in the NFL than in the MLB?

Estimate: $30 * 50 = 1,500; 30 * 40 = 1,200;$
 $1,500 - 1,200 = 300$

Answer: 496 more players

Is your answer reasonable? _____ How do you know? _____

Answers vary.

Practice

Round to the nearest thousand.

④ 45,493 45,000

Round to the nearest ten-thousand.

⑤ 1,409,836 1,410,000