

Number Nest Weekly Challenge



Warm up

1. What is the missing number? $_ - 41 = 517$
2. What is the missing number? $_ + 186 = 146$
3. What is $9^3 - 9 \times 76$?
4. Round to 2 decimal places: 1005.2809

Activity

1. Which of these calculations has the smallest answer?

a) 4×1

b) 3×1^4

c) $1^3 - 1^6$

d) $1^4 - 2 \times 1^2$

e) 1×1^2

2. Scott has 123 stamps and Tessa has 321 stamps. How many of her stamps must Tessa give to Scott so that he has half as many as she does?



3. The average of the numbers R, I, N, G and S is 2025, K is 2025 greater than R. What is the average of numbers K, I, N, G and S?

4. Zach took an exam. At the start of the exam, he noticed that the length of the paper in minutes was five times the number of questions on the paper. 45 minutes later, he had answered 11 questions and noticed that the number of minutes remaining was exactly six times the number of questions remaining. How long was the exam?

Puzzle

Complete the table with missing fractions, decimals and percentages.

Fractions	Decimals	Percentages
$\frac{37}{50}$		%
—	0.115	%
$\frac{6}{5}$		%
—		37.5%