

Dora has the number 824,650

She subtracts forty thousand from her number.

She thinks her new number is 820,650

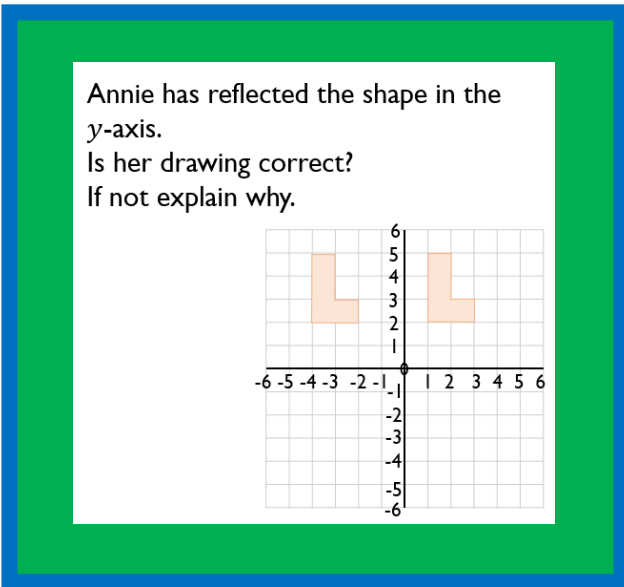
Is she correct?

Explain how you know.

Tommy is simplifying $4 \frac{12}{16}$

$$4 \frac{12}{16} = 4 \frac{3}{4}$$

Explain Tommy's mistake.



Eva has ordered eight 6-digit numbers.

The smallest number is 345,900

The greatest number is 347,000

All the other numbers have a digit total of 20 and have no repeating digits.

What are the other six numbers?

Can you place all eight numbers in ascending order?

2 3 4 5 7 8

Place the digits in the boxes to make the largest product.

	□	□	□	□
×	□	□	□	□

Find the missing digits.

$$\begin{array}{r} 041\boxed{}r3 \\ 4 \overline{)1\boxed{}59} \end{array}$$

My number is 1,350 when rounded to the nearest 10



Mo

My number is 1,400 when rounded to the nearest 100



Rosie

Both numbers are whole numbers.

What is the greatest possible difference between the two numbers?

Sort the fractions into the table.

Simplifies to $\frac{1}{2}$	Simplifies to $\frac{1}{3}$	Simplifies to $\frac{1}{4}$

5	2	4	8
15	4	16	16

2	3	6	5
8	9	12	10

Can you see any patterns between the numbers in each column?

What is the relationship between the numerators and denominators?

Can you add three more fractions to each column?

When a fraction is equivalent to $\frac{1}{4}$, the numerator is _____ the denominator.

15,987 15,813 15,101 16,101

Tommy says, "My number rounds to 16,000 to the nearest 1,000"

Alex says, "My number has one hundred."

Jack says, "My number is 15,990 when rounded to the nearest 10"

Dora says, "My number is 15,000 when rounded to the nearest 1,000"

Can you work out which child has which card?

Here are two calculations.

$$A = 396 \div 11$$

$$B = 832 \div 13$$

Find the difference between A and B.

Calculate:

• $1,248 \div 48$

• $1,248 \div 24$

• $1,248 \div 12$

What did you do each time?

What was your strategy?

What do you notice? Why?