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

Rounding puzzles word problems

1. Erica picked three numbers at random and formed a number ; 6, 9, and 5. To the nearest hundred, the number rounds to 1,000. What number(s) could she have picked?

2. John picked two numbers at random and formed a number ; 6 and 3. To the nearest ten, the number rounds to 40. What number(s) could he have picked?

mathskills4kids

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

Rounding puzzles word problems

1.   Erica picked three numbers at random and formed a number ; 6, 9, and 5. To the nearest hundred, the number rounds to 1,000. What number(s) could she have picked?

Let's first of all list the numbers that the given digits can form.

6, 9, and 5 can form: 695, 659, 965, 956, 596, and 569

Now, let's round the above numbers to the nearest hundred

695	⟶	700		956	⟶	1,000
659	⟶	700		596	⟶	600
965	⟶	1,000		569	⟶	600

Finally, let's conclude

Since we're looking for a number(s) that

rounds to 1,000, 965 and 956 are the correct answers.

So, Erica must have picked 965 or 956.

2.   John picked two numbers at random and formed a number ;6 and 3. To the nearest ten, the number rounds to 40. What number(s) could he have picked?

Let's first of all list the numbers that the given digits can form.

6 and 3 can form: 63 and 36

Now, let's round the above numbers to the nearest ten.

| 63 | ⟶ | 60 |
| 36 | ⟶ | 40. |

Finally, let's conclude

Since we're looking for a number that rounds

to 40, 36 is the correct answer.

So, John must have picked the number 36.