

Name: Class:

Estimate quotients: 2-digit divisors

Write an expression that will give a better compatible number estimate for the following.
Use the expression you've given to estimate the quotient.

1. $213 \div 11$



2. $540 \div 49$

Name: Class:

Estimate quotients: 2-digit divisors

Write an expression that will give a better compatible number estimate for the following.
Use the expression you've given to estimate the quotient.

1. $213 \div 11$

Let's first of all think of 2 definite compatible numbers that can give 2 different estimates of $213 \div 11$

$$213 \div 11 \longrightarrow 200 \div 10$$

$$213 \div 11 \longrightarrow 220 \div 10$$

Secondly, let's find the better compatible number estimate.

You will see that $200 \div 10$ is close to $213 \div 11$

So, $200 \div 10$ is a better compatible number to estimate $213 \div 11$.

Finally, we will use $200 \div 10$ to estimate the quotient

$$\frac{200}{10} = \frac{20 \times 10}{10 \times 1} = 20$$

So, $213 \div 11$ is approximately equal to 20



2. $540 \div 49$

Let's first of all think of 2 definite compatible numbers that can give 2 different estimates of $540 \div 49$

$$540 \div 49 \longrightarrow 600 \div 50$$

$$540 \div 49 \longrightarrow 550 \div 50$$

Secondly, let's find the better compatible number estimate.

You will see that $550 \div 50$ is close to $540 \div 49$

So, $550 \div 50$ is a better compatible number to estimate $540 \div 49$

Finally, we will use $550 \div 50$ to estimate the quotient

$$\frac{550}{50} = \frac{11 \times 50}{50 \times 1} = 11$$

So, $540 \div 49$ is approximately equal to 11