

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. $100 \div 10$

3. $326 \div 12$

4. $224 \div 12$

5. $121 \div 11$

6. $520 \div 13$

7. $314 \div 14$

8. $412 \div 13$

9. $450 \div 15$

10. $320 \div 10$

11. $512 \div 14$

12. $565 \div 14$

13. $336 \div 13$

14. $228 \div 12$

15. $1800 \div 18$

16. $540 \div 49$

17. $540 \div 10$

18. $120 \div 10$

19. $550 \div 25$

20. $700 \div 20$

21. $630 \div 12$

22. $224 \div 12$

23. $270 \div 19$

24. $872 \div 19$

25. $336 \div 13$

26. $555 \div 11$

27. $342 \div 12$

28. $747 \div 29$

29. $758 \div 17$

30. $650 \div 35$

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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.

16. $540 \div 49$

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.