

Estimating Decimal Quotients

When estimating with decimal division, you can use compatible numbers to make the math easier. By rounding the dividend and the divisor to numbers that can easily be divided, you will make your math computation easier.

Estimate $88.95 \div 0.95$.

$88.95 \div 0.95 = ?$ Write the original problem.

$\begin{array}{c} \downarrow \quad \downarrow \\ 90 \div 0.90 = 100 \end{array}$ Write compatible numbers.

For questions 1-4, estimate the quotients.

1. $12.72 \div 3.6$ _____ 2. $9.39 \div 0.92$ _____

3. $0.74 \div .08$ _____ 4. $145.22 \div 50.2$ _____

5. Mario and three friends purchased a snow blower to share. If the snow blower costs \$439.20, describe how you estimate how much each person will pay?

6. Is 100 a reasonable estimate for $915.25 \div 88.22$?

Name _____

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Use compatible numbers to find each quotient.

1. $2.90 \div 29$ _____
2. $0.65 \div 5.1$ _____
3. $48 \div 3.2$ _____
4. $18.2 \div 11$ _____
5. $0.18 \div 0.33$ _____
6. $55 \div 10.7$ _____
7. $152 \div 5.12$ _____
8. $117.8 \div 0.12$ _____
9. $41.9 \div 19$ _____
10. $0.6 \div 5$ _____
11. $33.90 \div 10.2$ _____
12. $145 \div 0.3$ _____
13. $502 \div 9.5$ _____
14. $435.2 \div 39$ _____
15. $180.8 \div 6$ _____
16. $60 \div 5.9$ _____
17. $48 \div 3.33$ _____
18. $1.8 \div 20$ _____

19. Martin is saving for a gaming system. The total cost of the gaming system and three games is \$325.49. About how much money should he save per week to purchase the gaming system and games in 10 weeks?

- A About \$0.33
- B About \$3.30
- C About \$33.00
- D About \$330.00

20. Kayla works as a hairdresser. She earned \$248.50 in tips in five days. If she earned the same amount each day, about how much did Kayla earn per day? Explain your answer.
