

Dividing Multiples of 10 and 100

You can use math facts and patterns to help you divide mentally.

What is $480 \div 6$?

What is $60,000 \div 6$?

You already know that $48 \div 6 = 8$.

$60 \div 6 = 10$

480 has one more zero than 48, so place one more zero in the quotient.

60,000 has three more zeros than 60, so place three zeros in the quotient.

$480 \div 6 = 80$.

$60,000 \div 6 = 10,000$.

Find each quotient. Use mental math.

1. $32 \div 8 =$

2. $320 \div 8 =$

3. $3,200 \div 8 =$

4. $32,000 \div 8 =$

5. $56 \div 7 =$

6. $560 \div 7 =$

7. $5,600 \div 7 =$

8. $56,000 \div 7 =$

9. $15 \div 3 =$

10. $150 \div 3 =$

11. $1,500 \div 3 =$

12. $15,000 \div 3 =$

13. **Writing To Explain** Explain how dividing 720 by 9 is like dividing 72 by 9.

Arlo has a newspaper delivery job. He wants to wrap each of his newspapers in a plastic bag to protect them from the rain. The newspapers are in bundles.

Arlo's Newspaper Delivery	
Number of bundles	12
Number of newspapers per bundle	9

Use mental math to answer the following questions.

14. How many bags will he use for 5 bundles?

15. How many bags will he use for 7 bundles?

16. How many bags will he use for all 12 bundles?

Name _____

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Use mental math to find each quotient.

1. $27 \div 9 =$

2. $270 \div 9 =$

3. $2,700 \div 9 =$

4. $24 \div 4 =$

5. $240 \div 4 =$

6. $2,400 \div 4 =$

7. $720 \div 9 =$

8. $140 \div 7 =$

9. $2,100 \div 3 =$

10. If a bike race covers 120 mi over 6 days and the cyclists ride the same distance each day, how many miles does each cyclist ride each day? _____

Use mental math to answer the following questions.

11. If the vehicles are divided evenly between the sections, how many vehicles are in each section?

Dealership Vehicle Storage	
Sections of vehicles	4
Vehicles for sale	1,200
Rows per section	10

12. If the vehicles are divided evenly between the rows in each section, how many vehicles are in each row? _____

13. If $160,000 \div n = 4$, find n . _____

14. Find $32,000 \div 8$ mentally.

A 4,000

B 400

C 40

D 4

15. Solve the equation $n \times 50 = 5,000$. Explain your solution.
