

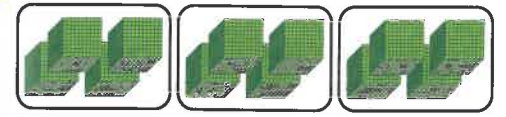
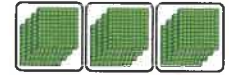
Understand it!
Basic facts and place-value patterns can be used to find some quotients.

Dividing Multiples of 10, 100 and 1000

How can you divide multiples of 10, 100 and 1000 using patterns?

You know that $12 \div 3 = 4$.

$120 \div 3 = 40$ $1200 \div 3 = 400$



$12000 \div 3 = 4000$

Mental Computation

Use 10, 100 and 1000 patterns to find each answer.

1 $40 \times 3 =$

2 $60 \times 2 =$

3 $90 \times 4 =$

4 $120 \times 3 =$

5 $210 \times 4 =$

6 $2000 \times 8 =$

Guided Practice

Use patterns and mental maths to find each quotient.

7 $36 \div 4 =$

8 $40 \div 8 =$

9 $18 \div 6 =$

$360 \div 4 =$

$400 \div 8 =$

$180 \div 6 =$

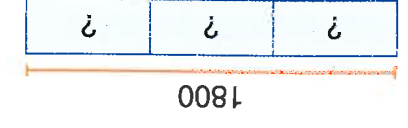
$3600 \div 4 =$

$4000 \div 8 =$

$1800 \div 6 =$

Reasoning

10 What basic fact can you use to find the quotient of $1800 \div 3$? Explain.



b Tara takes 4 tours each day. How many steps would she climb after 3 days?

2 tours? How many after 1 tour?

18a Tara takes tours in a museum. During 4 tours she climbs a total of 600 steps. If the tours are exactly the same, how many steps would she climb after

Problem Solving



17 Jack has 120 minutes to open the secret door. If the door has 6 locks, how much time does he have to open each lock?

14 $160 \div 2 =$

15 $4900 \div 7 =$

16 $60 \div 3 =$

Use mental maths to find each quotient.

11 $15 \div 3 =$

12 $54 \div 9 =$

13 $32 \div 4 =$

$150 \div 3 =$

$540 \div 9 =$

$320 \div 4 =$

$1500 \div 3 =$

$5400 \div 9 =$

$3200 \div 4 =$

Independent Practice

Use patterns to find each quotient.

Find $1200 \div 3$.

Use place value.

1200 is the same as 12×100 or 12 hundreds.

$12 \div 3 = 4$

So, 12 hundreds $\div 3 = 4$ hundreds.

$1200 \div 3 = 400$

Find $1200 \div 3$.

Use a rule.

$12 \div 3 = 4$

1200 $\div 3$ is 4 followed by 2 zeroes.

$1200 \div 6 = 400$

Another Way

