## Divisibility Rules

Divisible by:

Try these by using either short division or long division.

Is 348 divisible by 6 ?
$348 \div 6$

Is 12,983 divisible by 3 ?
$12,983 \div 3$
$99,028 \div 4$

The owner of a sporting goods store has $\$ 8,145$ to give to his 9 employees as bonuses. Will each employee receive the same amount if he uses all of the money?


An M\&M factory has 23,475,936 M\&M's to donate for Halloween. If they have four states to donate to will each state receive the same amount of M\&M's without any left over?


Divisible by 2 :
Rule:


Which of the following are divisible by 2? Circle all that apply
23,468
18,340
3,455
513,008
18

Try These: Circle all of the numbers that are divisible by 2.
25
78
957
988
54,876
3,895
467
$24,682,446,084,240,242,688,000,042,008,224,226,688,243$

Divisible by 5:
Rule:

Which of the following are divisible by 5? Circle all that apply
23,465
18,340
3,452
513,059
55,552

Try These: Circle all of the numbers that are divisible by 5.
255
122
507
4,000
505,051
3,895
460

Divisible by 10:
Rule:


Which of the following are divisible by 10 ? Circle all that apply
10,104
34,905
3,450
500,008
18,004,950

Try These: Circle all of the numbers that are divisible by 10.
340
7,894
95,578
988,045
467,000
57,790
123,940
24,682,446,084,240,242,688,000,042,008,224,226,688,240

Divisible by 3:
Rule:

Which of the following are divisible by 3 ? Circle all that apply
111
12,976
67,431
200,001
18,001

Try These: Circle all of the numbers that are divisible by 3.
278 781

222,111
200,156
54,876
30,002
467,344

Divisible by 6:
Rule:


Which of the following are divisible by 6 ? Circle all that apply
234,965
341,028
35,992
562,500
18,006,003

Try These: Circle all of the numbers that are divisible by 6.
56,006
111,126
3,000
223,005
54,876
3,895
$24,682,446,084,240,242,688,000,042,008,224,226,688,243$

Divisible by 9:
Rule:


Which of the following are divisible by 9 ? Circle all that apply
105,003
919,191
569,250
999,882
18,783,392

Try These: Circle all of the numbers that are divisible by 9.
56,009,880
$3,009,457,980$
67,000
234,894
12,012

Divisible by 4:
Rule:


Which of the following are divisible by 4? Circle all that apply
444,444,423
556,712
456
67,000,001
78,050,436

Try These: Circle all of the numbers that are divisible by 4.
67,044
24,247
8,90,006
23,928
111,111
$444,444,444,444,444,444,444,413$

Divisible by 8 :
Rule:

Which of the following are divisible by 8 ? Circle all that apply
456,056
345,006
234,960
$124,245,128$
25,001

Try These: Circle all of the numbers that are divisible by 8.
200,400
34,088
18,045,099
450,987
567,256
26,480

Now Try These:
The owner of a sporting goods store has $\$ 8,145$ to give to his 9 employees as bonuses. Will each employee receive the same amount if he uses all of the money?


An M\&M factory has 23,475,936 M\&M's to donate for Halloween. If they have four states to donate to will each state receive the same amount of M\&M's without any left over?


I have 24,902 word problems to put in 8 units. Will each unit get the same number of word problems if I use all of the problems?


I am writing a 256,938,093 word book. I have 6 years to complete it and want to write the same number of words per year. Is this possible?

