

Name: \_\_\_\_\_

Serviss

### DIVISIBILITY

- Which of the following are divisible by 2? Which are divisible by 3? Which are divisible by 6?  
a) 4216                      b) 739                      c) 8391                      d) 79284
- Which of the following have 4 as a factor? Which are multiples of 8?  
a) 3488                      b) 72916                      c) 1000816                      d) 116208
- Determine which lengths of wire can be cut into 5m pieces without any waste?  
a) 105m                      b) 3140m                      c) 17364m
- Coach Ing wants to divide 738 students into intramural teams with 9 players each. Can he divide the students evenly?
- Leap years occur in years divisible by 4 and *not divisible by 1000*. Which of the following are leap years?  
a) 1928                      b) 1946                      c) 2000                      d) 2024
- Which of the following are divisible by 11?  
a) 429176                      b) 70908795                      c) 25835238
- Find all the possible digits for  $\square$  that would make  $491\square$  divisible by:  
a) 2                      b) 3                      c) 5                      d) 11
- Find all the possible digits for  $\square$  that would make  $19\square0$  divisible by:  
a) 5                      b) 4                      c) 8                      d) 9
- Determine the smallest whole number that is divisible by *every whole number from 1 to 10*.

Answers:	1. Divisible by 2? a, d	Divisible by 3? c, d	Divisible by 6? d
	2. 4 as a factor? a, b, c, d	Multiples of 8? a, c, d	
	3. Without any waste? a, b	4. Yes	5. Leap years? a, d
	6. Divisible by 11? a, c		
	7a) 0, 2, 4, 6, 8	b) 1, 4, 7	c) 0, 5
	8a) every digit	b) 4, 8	c) 4, 8
			d) 8
	9) 2520		