

Number Theory
Skill 5 - 10A
Divisibility Rules

A number is divisible by	
2	if the last digit is an even number.
3	if the sum of the digits is divisible by 3.
4	if the last two digits of a number are divisible by 4. Example 3,712 is divisible by 4 because the last 2 digits form the number 12 which is divisible by 4.
5	if the last digit is 0 or 5.
6	if the number is divisible by 2 and 3.
9	if the sum of the digits is divisible by 9.
10	if the last digit is 0.

Answers to test question 10A

Directions: Use divisibility rules to answer each question.

10A – 1 Circle the number that is divisible by 2, 5, and 10.

655

480

224

answer: 480 (look at rules for 2, 5, and 10)

10A - 2 Circle the number that is divisible by 3, 6, and 9.

48

84

288

answer: 288 (look at rules for 3, 6, and 9)

A number is divisible by 2 if the last digit is an even number. (0, 2, 4, 6, 8)

Circle the numbers below that are divisible by 2. (use mental math)

1. 14, 26, 43, 2,530, 735, 3,123, 20,321, 35,266, 265, 358, 462

A number is divisible by 3 if the sum of the digits is divisible by 3.

Circle the numbers below that are divisible by 3. (use mental math)

2. 36, 2,043, 4,235, 30,243, 53,212, 2,315, 1,452, 263, 636, 12,366

A number is divisible by 4 if the last two digits form a number divisible by 4.

Circle the numbers below that are divisible by 4. (use mental math)

3. 12, 18, 2,353, 5,025, 321, 220, 63,224, 4,012, 337, 4,228, 447

Number Theory
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Divisibility Rules

A number is divisible by 5 if the last digit is 0 or 5.

Circle the numbers below that are divisible by 5. (use mental math)

4. 350, 624, 753, 5,630, 980, 6,357, 50,655, 48,625 , 500, 643, 368

A number is divisible by 6 if the number is divisible by 2 and 3.

Circle the numbers below that are divisible by 6. (last digit must be even and the sum of the digits must be divisible by 3) (use mental math)

5. 24, 2,013, 1,254, 23,130, 14,052, 3,265, 5,020, 350, 150, 14,243

A number is divisible by 9 if the sum of the digits is divisible by 9.

Circle the numbers below that are divisible by 9. (use mental math)

6. 18, 54, 63, 3,663, 625, 2,345, 10,452, 26,038 , 339, 288, 567

A number is divisible by 10 if the last digit is 0.

Circle the numbers below that are divisible by 4. (use mental math)

7. 27, 40, 250, 2,224, 770, 5,690, 10,525, 22,672 , 380, 270, 435

Each number below is divisible by one or more of these numbers, 2, 3, 4, 5, 6, 9, 10.
Write which ones.

The first one is has been completed for you.

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|-----------------------|------------|-----------|
| 1. 32 answer: 2, 4 | 2. 10 | 3. 91 |
| 4. 15 | 5. 16 | 6. 27 |
| 7. 25 | 8. 28 | 9. 268 |
| 10. 203 | 11. 256 | 12. 319 |
| 13. 3,172 | 14. 1,896 | 15. 2,604 |
| 16. 6,260 | 17. 2,004 | 18. 1,521 |
| 19. 23,550 | 20. 50,127 | 21. 1,055 |

Answers for practice sheet 10A.

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| 1. 14,26, 2,530 35,266, 358,
462 | 2. 36, 2,043, 30,243 1,452,
636, 12,366 | 3. 12, 220, 63,224, 4012,
4,228, |
| 4. 350, 5,630, 980, 50,655,
48,625, 500 | 5. 24, 1,254, 23,130, 14,052,
150 | 6. 18, 54, 63, 3,663, 288, 567 |
| 7. 40, 250, 770, 5,690, 380,
270 | | |
| 1. 32 2,4 | 2. 10 2,5,10 | 3. 91 none |
| 4. 15 3,5 | 5. 16 2, 4 | 6. 27 3, 9 |
| 7. 25 5 | 8. 28 2, 4 | 9. 268 2, 4 |
| 10. 203 none | 11. 256 2, 4 | 12. 319 none |
| 13. 3,172 2, 4 | 14. 1,896 2, 3, 4, 6 | 15. 2,604 2, 3, 4, 6 |
| 16. 6,260 2, 4, 5, 10 | 17. 2004 2, 3, 4, 6 | 18. 1,521 3, 9 |
| 19. 23,550 2, 3, 5, 6, 10 | 20. 50,127 3 | 21. 1,055 5 |

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