

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

Period: \_\_\_\_\_

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**Homework 5-1**  
**Rules of Divisibility & Mixed/Improper Fractions**

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**Unit 5**

**Review.**

Simplify by combining like terms.

1.  $2(x - 6)$

5.  $2(x + 9) + x$

2.  $-3(5 + 2x)$

6.  $-3(x + 4) - 5$

3.  $4(-x + 7)$

7.  $4(2x - 7) + 5x$

4.  $-2(-8x - 7)$

8.  $-5(2x + 4) - 5x + 4$

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Tell whether each number is divisible by 2, 3, 5, 9, or 10.

9. 90

Divisible by \_\_\_\_\_

13. 225

Divisible by \_\_\_\_\_

17. 81

Divisible by \_\_\_\_\_

10. 308

Divisible by \_\_\_\_\_

14. 416

Divisible by \_\_\_\_\_

18. 72

Divisible by \_\_\_\_\_

11. 540

Divisible by \_\_\_\_\_

15. 24

Divisible by \_\_\_\_\_

19. 1,524

Divisible by \_\_\_\_\_

12. 804

Divisible by \_\_\_\_\_

16. 58

Divisible by \_\_\_\_\_

20. 2,160

Divisible by \_\_\_\_\_

Change each of the following to an improper fraction.

21.  $2\frac{3}{4}$

24. 12

22.  $3\frac{5}{6}$

25.  $6\frac{7}{8}$

23.  $5\frac{1}{3}$

26.  $2\frac{1}{15}$

Change each of the following to a mixed numeral in simplest form.

27.  $\frac{22}{4}$

30.  $\frac{36}{7}$

28.  $\frac{16}{12}$

31.  $\frac{15}{6}$

29.  $\frac{22}{3}$

32.  $\frac{27}{4}$