

# Corrective Assignment

**Simplify. State the excluded values**

1.  $\frac{90a^4}{81a^2}$

Excluded values:

2.  $\frac{35k^2+63k}{14k^2}$

Excluded values:

3.  $\frac{3a-27}{a-9}$

Excluded values:

4.  $\frac{x^2-3x-28}{x^2+8x+16}$

Excluded values:

5.  $\frac{2n^3-26n^2+60n}{n^2-6n-40}$

Excluded values:

6.  $\frac{k^2+5k+4}{k^3+13k^2+36k}$

Excluded values:

**Multiple.**

7.  $\frac{8m^2(m+3)}{4(m+3)} \cdot \frac{8m}{8m^2}$

8.  $\frac{6r^2}{(r-5)} \cdot \frac{10r-50}{10}$

9.  $\frac{k^2+7k+6}{4k+32} \cdot \frac{k^2+3k-40}{k^2+k-30}$

**Divide.**

10.  $\frac{5}{6x^3} \div \frac{10}{6x}$

11.  $\frac{3k^2}{k+5} \div \frac{k^2-4k-60}{k^2+11k+30}$

12.  $\frac{1}{p+4} \div \frac{p+6}{p^2-5p-36}$

**Simplify the complex fraction.**

13.  $\frac{\frac{2}{3}}{\frac{x}{3}}$

14.  $\frac{\frac{x^2}{3}}{\frac{x^2}{x+4}}$

15.  $\frac{\frac{a^2}{16}}{\frac{25}{a^2}}$

**Simplify.**

16.  $\frac{8(x+7)}{x+1} \div \frac{-8(x-3)}{(x+1)(x-3)}$

17.  $\frac{5}{7x-14} \cdot \frac{35x+42}{30x^2+36x}$

18.  $\frac{\frac{25}{x+1}}{\frac{x+3}{x+1}}$

19.  $\frac{n^2-17n+70}{n^2+2n-63}$

20.  $\frac{7m^2-4m-3}{6m-6}$

21.  $\frac{1}{2p} \div \frac{p-5}{2p^2+20p}$

**ANSWERS TO 10.2 CORRECTIVE ASSIGNMENT**

1. $\frac{10a^2}{9}$ where $a \neq 0$	2. $\frac{5k+9}{2k}$ where $k \neq 0$	3. 3 where $a \neq 9$	4. $\frac{x-7}{x+4}$ where $x \neq -4$
5. $\frac{2n(n-3)}{n+4}$ ; $n \neq 10, -4$	6. $\frac{k+1}{k(k+9)}$ ; $k \neq 0, -9, -4$	7. $2m$	8. $6r^2$
9. $\frac{k+1}{4}$	10. $\frac{1}{2x^2}$	11. $\frac{3k^2}{k-10}$	12. $\frac{p-9}{p+6}$
13. $\frac{2}{x}$	14. $\frac{x+4}{3}$	15. $\frac{a^4}{400}$	16. $-x - 7$
17. $\frac{5}{6x(x-2)}$	18. $\frac{25}{x+3}$	19. $\frac{n-10}{n+9}$	20. $\frac{7m+3}{6}$
21. $\frac{p+10}{p-5}$			