Algebra I

5-2

Dividing Monomials

Simplify. (pg 192)

1) $\frac{42}{63} = \frac{6}{9} = \frac{2}{3}$

3) $\frac{10^4}{10^6} = \frac{1}{10^2}$

↳ when dividing, subtract powers.

11) $\frac{12y^3}{4xy^2} = \frac{3y}{x}$

21) $\frac{(2r)^4}{2r^4} = \frac{16r^4}{2r^4} = 8$

Find the missing factor.

31) $6t^4 = (2t)(\ ?\ )$

$3t^3$

39) $(3a^3b^2)^3 = (3a^3b^2)^2(\ ?\ )$

$27a^6b^6 = 9a^6b^4(\ ?\ )$

$3a^3b^2$

Find the GCF (and LCM) of each pair of monomials.

47) $48a^2bc^3$, $72ab^3c^2$

$2^4 \cdot 3 a^2 b c^3$ $2^3 \cdot 3^2 \cdot a b^3 c^2$

GCF: $2^3 \cdot 3abc^2 = 24abc^2$

LCM: $2^4 \cdot 3^2 \cdot a^2 b^3 c^3 = 144a^2b^3c^3$

pg 192

2-52even