Simplifying Rational Expressions

Simplify the following rational expressions.

1) $\dfrac{8t}{4t} \times \dfrac{3t^2}{2}$

2) $\dfrac{4a^2b}{8ab} \div \dfrac{2a^2b^2}{4ab^2}$

3)

5)

7) $\dfrac{n}{10} \times \dfrac{20}{nm}$

8) $\dfrac{3x+6}{3y^3} \times \dfrac{y^3}{x-2}$