Books, notes (in any form), and calculators are not allowed. Show all your work. Good Luck!
[Form A1]

1. ( 1 pts ) Write the fraction in simplest form: $\frac{16}{60}$
2. ( 6 pts ) Evaluate the following expressions and write the result in simplest form.
(a). $\frac{2}{3}+\frac{4}{9}$
(b). $\frac{7}{8} \div \frac{3}{4}$
(c). $2 \cdot \frac{1}{3} \cdot \frac{2}{5}$
3. (3 pts) Simplify and write without exponents.
(a). $5^{-2}$
(b). $\frac{-3^{2}}{3^{5} \cdot 3^{-2}}$
4. (5 pts) Simplify the following expressions so that only positive exponents remain.
(a). $\left(2 x^{-4} y^{3}\right) \cdot\left(3 x y^{-1}\right)$
(b). $\left(\frac{a^{2} b^{3}}{a^{4} b c^{-2}}\right)^{-3}$
5. (5 pts) Simplify the following expressions and leave your answers with radicals. [Assume nonnegative variables.]
(a). $\sqrt[3]{32 x^{6} y^{4}}$
(b). $\sqrt{10 a b^{8}} \sqrt{10 a^{11} b^{3}}$
