

## Review Arithmetic

1. Simplify the following square roots:

a)  $\sqrt{45}$     b)  $\sqrt{200}$     c)  $\sqrt{135}$     d)  $\sqrt{27} - \sqrt{75}$     e)  $8\sqrt{18} + 2\sqrt{32}$

2. Express the following number as a decimal:

a)  $6.92 \times 10^{-2}$     b)  $2.85 \times 10^{-6}$

3. Convert the numeral as a number in base ten:

a)  $14_{\text{five}}$     b)  $71_{\text{eight}}$     c)  $1110_{\text{two}}$     d)  $26612_{\text{eight}}$

4. Convert the base ten numeral to a number in base four:

a) 107

5. Convert the base ten numeral to a number in base five:

a) 48

6. Use division to convert the base ten numeral 20 to base 2:

7. Express the given repeating decimal as a quotient of integers. If possible, reduce to lowest terms.

a)  $0.\overline{7}$     b)  $0.\overline{35}$     c)  $0.\overline{132}$