Name: _____ Date: _____

BLM 8–1

Prerequisite Skills

Decimals

1. Use a calculator to evaluate.

a) 3.8×2.6

b) 1.15×1.15

c) $3500(0.18)(10)$

d) $38\,500(0.04)(15)$

e) $300 + 300(0.12)(1.5)$

f) $1800 + 1800(0.12)\left(\frac{5}{12}\right)$

2. Evaluate.

a) $0.16 \div 4$ **b)** $0.10 \div 2$

c) $0.06 \div 12$ **d)** $0.24 \div 6$

e) $0.48 \div 6$ **f)** $0.05 \div 2$

Percents

3. Write each percent as a decimal.

a) 12% **b)** 16.5%

c) 1.15% **d)** 8.4%

e) 0.3% **f)** 5%

4. Evaluate. Write your answer as a decimal.

a) $8\% \div 4$ **b)** $10\% \div 2$

c) $12\% \div 12$ **d)** $9\% \div 3$

e) $4.5\% \div 2$ **f)** $18\% \div 12$

5. Evaluate.

a) 4% of 200 **b)** 12% of 1500

c) 3.8% of 8000 **d)** 9% of 175

e) 6.2% of 5600 **f)** 1.112% of 350 000

Exponents

6. Evaluate, using a calculator.

a) 1.13^4 **b)** $(1.005)^{11}$

c) $625(1.08)^2$ **d)** 4^{-2}

e) 1.18^{-5} **f)** 1.0045^{-11}

Simple Interest

7. Use $I = Prt$ to calculate the simple interest earned on each investment.

a) P = \$4250, r = 4.5%, t = 3 years

b) P = \$800, r = 6.2%, t = 8 years

c) P = \$1730, r = 8%, t = 6 months

d) P = \$14500, r = 3.325%, t = 5 years, 9 months

8. Calculate the amount each simple interest investment will be worth at the end of the term. Hint: Remember to add the interest and the principal together for the total.

a) \$3000 invested for 5 years at 8% per year

b) \$44 800 invested for 10 months at 10% per year

c) \$675 invested for 15 years at 6.5% per year

d) \$22 000 invested for 20 years at 7.75% per year