Math 30
Pre Course Basic Skills
The math skills required to answer these problems are skills you should know before taking Math 30. Most concepts can be reviewed in sections R1 - R6 of the textbook.

Determine the place value of the digit requested.
1) 883,878,454
   Tens _________  Millions _________
   Hundreds _________ Ten Thousands _________

Write in expanded notation.
2) 23,154

Write the word name for the number.
3) 70,146

Solve the problem.
4) Round 37,057 as required.
   a) nearest thousand
   b) nearest hundred
   c) nearest ten

Rewrite using numbers and an inequality symbol.
5) a) Nineteen is greater than fourteen.
   b) Nine is less that or equal to fifteen

Translate using numbers and symbols.
6) a) Three increase by a number.
   b) The difference of sixteen and thirteen.
   c) The product of 2 and a number.
   d) The quotient of forty-eight and seven.

Rewrite the following addition expression using multiplication.
7) $2 + 2 + 2 + 2 + 2$

Identify property used as either communtative, associative or identity.
8) a) $5 + c = c + 5$
   b) $5 + 0 = 5$
   c) $(5 + 3) + 2 = 5 + (3 + 2)$
   d) $5 \times (4 \times 3) = (4 \times 3) \times 5$
   e) $5 \times (4 \times 3) = (5 \times 4) \times 3$
   f) $5 \times 1 = 5$

Use the distributive property.
9) a) $3(z + 5)$
   b) $3(2 + 4)$

Evaluate each expression if p is 4 and n is 14.
10) a) $p + n$
    b) $18 - n$
    c) $3p$
    d) $24 \div p$

Find a solution for each equation.
11) a) $4 + n = 12$
    b) $15 - n = 4$
    c) $3n = 21$
    d) $45 \div n = 15$

Divide if possible.
12) a) $0 \div 75$
    b) $75 \div 0$

Change to fraction, decimal or percent as required.
13) a) Change $\frac{1}{2}$ to a decimal and percent.
    b) Change 0.3 to a fraction and percent
    c) Change 24% to a decimal and fraction.
    d) Change $\frac{1}{3}$ to a decimal and percent.

Estimate the answer by rounding to thousands then add.
14) 25,633
   7,601
   18,744
1) 20,000 + 3000 + 100 + 50 + 4
2) Seventy thousand, one hundred forty-six
3) 37,000
   37,100
   37,060
4) a. 19 > 14
    b. 9 ≤ 15
5) 3 + n
    16 − 13
    2n
    48 + 7 or \( \frac{48}{7} \)
6) 5 x 2
7) commutative
   identity
   associative
   commutative
   associative
   identity
8) 3z + 15
    6 + 12
9) 18
   4
   12
   8
10) 8
    11
    7
    9
11) a. 0
    b. not possible
12) 0.5 & 50%
    \( \frac{3}{10} \) & 30%
    0.24 & \( \frac{24}{100} = \frac{6}{25} \)
    0.3 & 33\( \frac{1}{3} \)%
13) 53,000