

Handout**4 – 1**
Section 4.1

Supplementary Activities

Following the Order of Operations

1. Calculate these chains of operations by following the order of operations.

a) $15 + 6 \times 4 - 12 \div 3 =$

b) $5 \times (17 - 11) \div 3 + 4^2 =$

c) $12 \times 3 \div 9 + (15 - 2) \times 3 =$

d) $2 + 5^2 - 3 \times 6 + 5 =$

e) $(8 + 3 + 2^3 - 4 \times 4) \times 3 =$

f) $6 \times (3 + 5) - 12 \times 2 =$

g) $10^2 - (8^2 - 4 \times 3) =$

h) $(13 + 4 - 7) \times 5 + 12 =$

2. Add brackets to each chain of operations to get the result indicated.

a) $7 + 4 \times 2 + 3 = 27$

b) $36 \div 4 \times 3 + 5 = 8$

c) $7 + 4 \times 2 + 3 = 25$

d) $36 \div 4 \times 3 + 5 = 72$

3. Complete these chains of operations using the numbers 2, 4, 6 and 8 to get the correct result.

a) $\square \times \square - \square = 16$

b) $\square + \square \times \square = 16$

c) $\square \times \square \div \square = 12$

d) $\square \times \square - \square = 46$

e) $(\square + \square) \times \square = 20$

f) $(\square - \square) \times \square = 36$

4. Calculate these chains of operations. Circle the expressions that are equivalent.

a) $(3 + 2) \times 5 + 7 = \underline{\hspace{2cm}}$

b) $3 \times 5 + 2 + (7 - 2) = \underline{\hspace{2cm}}$

c) $5 \times (2 + 7) + 3 = \underline{\hspace{2cm}}$

d) $2 + 7 \times 3 - 5 = \underline{\hspace{2cm}}$

e) $7 + (3 + 2) \times 5 = \underline{\hspace{2cm}}$

f) $7 + 3 + 2 \times 5 = \underline{\hspace{2cm}}$

g) $5 + 7 - 3 \times 2 = \underline{\hspace{2cm}}$

h) $(7 - 2) \times 5 + 3 = \underline{\hspace{2cm}}$

i) $(7 + 5) \times (3 + 2) = \underline{\hspace{2cm}}$

j) $7 \times (3 + 2) \times 5 = \underline{\hspace{2cm}}$
