

QUESTION 1 Simplify the following.

a $(8 + 12) - 5$

=

b $64 - (30 + 5)$

=

c $(8 + 12) + (6 + 4)$

=

d $(5 + 7) \times 3$

=

e $18 \times (42 \div 7)$

=

f $(62 + 10) \div (36 \div 4)$

=

g $12 + 13 + 5 - 7$

=

h $64 - 12 - 6 - 4$

=

i $8 \times 2 \times 2 \times 3$

=

QUESTION 2 Write the basic numeral for each of the following.

a $9 + 2 \times 5 + 7$

=

b $32 + 18 \times 5$

=

c $85 - 18 \div 9 + 20$

=

d $12 \times (8 - 3) \div (17 - 7)$

=

e $(34 + 14) \div 6$

=

f $84 - 5(15 - 3) + 25$

=

g $64 + 2 \times (28 - 8 \times 2)$

=

h $96 \div (4 + 8) \times 5$

=

i $8 \times (28 + 8) \div 4$

=

QUESTION 3 Use the rules for the order of operations to simplify the following.

a $[(10 + 5) \div 3] \times 7$

=

b $30 \times [(36 \div 9) \times 2] - 6$

=

c $[(4 + 8) \times (19 - 14) \div 4]$

=

d $[(24 + 11) \div 7] \times 9$

=

e $[8 + (8 \times 8)] \div 8$

=

f $6 \times [(2 + 14) \times (13 - 6)]$

=

QUESTION 4 Insert the grouping symbols to make the following statements true.

a $16 + 9 \times 0 = 0$

=

b $14 + 8 - 6 \times 3 = 20$

=

c $15 - 7 \times 9 = 72$

=

d $144 \div 12 - 7 \times 3 = 15$

=

e $24 + 12 \div 4 + 5 = 4$

=

f $72 \div 12 - 3 + 2 = 10$

=

QUESTION 2 Find answers to the following.

a $16 \times (9 - 4) \div (15 - 5)$

=

b $68 - 3(12 - 3) + 32$

=

c $88 + 2 \times (36 - 6 \times 4)$

=

d $99 \div (12 - 3) \times 9$

=

e $68 - 3(18 - 5) + 32$

=

f $74 + (28 \div 7 \times 3) - 8$

=

g $10 \times (32 + 28) \div 4$

=

h $300 - [16 + (3 \times 8) \div 6]$

=

i $140 \div \{12 + [(4 \times 5) - 18]\}$

=

QUESTION 4 Insert the grouping symbols to make the following statements true.

a $10 + 12 \div 11 = 2$

b $23 - 3 \times 5 = 100$

c $28 + 8 \times 8 - 7 \times 4 \times 2 = 288$

d $9 + 9 \times 9 \div 9 = 10$

e $12 + 6 - 8 \times 2 = 20$

f $3 + 8 \times 7 - 4 \times 3 = 72$

g $15 \div 3 \times 8 - 6 + 9 = 25$

h $200 - 15 + 2 \times 3 \div 6 = 184$

i $6 + 8 \times 4 - 36 \div 9 = 52$
