Homework Sheet ORDER OF OPERATIONS

1 Find the value of each of the following:

a $81 \div 9$ _____ b $448 \div 8$ _____ c $20\overline{)1040}$ _____ d $7\overline{)5691}$ _____

2 Find answers to these problems:

a the quotient $138 \div 6$ _____ b Divide 2382 by 3. _____

c How many times does 7 go into 245? _____

3 Which is the largest?

$784 - 137$, $526 + 129$, 32×20, $1290 \div 2$ _____

4 Which is the smallest?

$39 + 87$, 16×8, $1000 \div 8$, $294 - 160$ _____

5 Find the odd one out in each case:

a $72 \div 9$, 2×4, $136 - 128$, $7 + 8$ _____

b $49 + 133$, $267 - 85$, 20×9, $364 \div 2$ _____

c $30\overline{)1650}$, $943 - 888$, 11×5, $23 + 36$ _____

6 Evaluate the following:

a $1742 \div 26$ _____ b $37\,424 \div 17$ _____

7 A club has 732 members, and in a year it loses 192 members and gains 134 new members. How many members does the club have at the end of the year? _____

8 A 448-litre container is used to fill a number of 8-litre containers. How many 8-litre containers can be filled? _____

9 Rosy runs 9 km every week. How many kilometres does she run in a 52-week year? _____

10 Anne saves \$11 per week for 9 weeks while Ashdev saves \$19 for 5 weeks. Who ends up saving the most? _____

11 Deborah runs a small publishing business and earns \$115 000 from book sales but has \$49 210 in printing costs. How much will Deborah have left over (profit)? _____

12 A hotel room has a rate of \$187 per night.

a What is the cost of 8 nights? _____

b How many nights can you afford for \$1122? _____

c If the hotel included 1 night free for every 3 nights purchased, what would be the cost of 12 nights? _____

13 A boat has a maximum payload of 725 kg.

a How many 5-kg containers can it carry? _____

b If 60 items, each weighing 13 kg, were loaded onto the boat, by how much would the payload exceed the maximum? _____

14 Evaluate each of the following:

a $4 \times (2 + 11) \div 2$ _____ b $2 + (9 \div 3)$ _____

c $96 - 11 \times 3$ _____ d $(4 + 9) \times (54 \div 9)$ _____

e $4 \times 8 - 7 \times 3$ _____ f $15 \div 5 \times (138 \div 6) + 1$ _____

15 Insert the given numbers in the boxes to make a correct mathematical statement in each case:

a 1, 2, 3, 5

$(\square + \square) \div \square = \square$

b 1, 3, 6, 9

$\square \times \square - \square = \square$

16 Insert brackets into these problems to make them true statements:

a $2 \times 3 + 7 = 20$ _____ b $45 - 18 \div 81 \div 9 = 43$ _____