

2014

# NUMBERS TEST

## Grade: 8 Test

Examiner: Miss Goldstone

Moderators: Mrs Smidt, Mrs Campher and Miss Goring

### Instructions:

Answer all your questions on the folio paper provided.

Show ALL your working out.

Calculators may NOT be used.

### QUESTION 1:

1.1 Arrange the following numbers in ascending order (lowest to highest):

799 678 872

799 688 892

799 687 894

799 689 879

(4)

1.2 Arrange the following numbers in descending order (highest to lowest):

134 867 785

125 768 762

135 882 689

134 780 796

(4)

### QUESTION 2:

2.1. For each of the following, determine which property of whole numbers is being shown:

2.1.1  $54 + 5 = 5 + 54$

2.1.2  $23 + 0 = 23$

2.1.3  $9 \times 1 = 9$

2.1.4  $49 + (16 + 6) = (49 + 16) + 6$

2.1.5  $54 \times (3 + 6) = (54 \times 3) + (54 \times 6)$

2.1.6  $23 + 7 = 7 + 23$

(6)

2.2 Apply the associative property to the following:

ie:  $4 + 2 + 1 = (4 + 2) + 1$

$6 + 1 = 7$

2.2.1  $354 + 956 + 724$

2.2.2  $12 \times 4 \times 9$

(4)

2.3 Apply the distributive property to the following:

$$\begin{aligned} \text{ie: } 2 \times (1 + 2) &= 2 \times 1 + 2 \times 2 \\ &= 2 + 4 = 6 \end{aligned}$$

2.3.1  $12 \times (6 + 8)$

2.3.2  $(18 + 6) \div 3$

2.4 Apply the commutative property to the following:

2.4.1  $144 + 772$

2.4.2  $149 \times 162$

2.4.3  $329 + 79$

**QUESTION 3:**

Estimate the following using rounding off to the nearest hundred. Show ALL your working out.

3.1  $6\,234 + 1\,924$

3.2  $33\,876 + 21\,115$

3.3  $657\,820 - 239\,740$

3.4  $12\,006 + 17\,668$

**QUESTION 4**

Calculate the following in columns and check your answers using the inverse operation.

4.1  $239 - 31$

4.2  $9\,649 - 3\,621$

4.3  $3\,512 \times 39$

4.4  $34\,650 \div 22$

Total: 50