**Grade 6 Mathematics term 2 2020**

**NUMBERS, OPERATIONS AND RELATIONSHIPS**

**Whole numbers**: Multiplication.

1. Compare the following answers. **=; <; >**

**Example a.**6 x 9 = **54=**9 x 6 = **54b.** 50 x 3 \_\_\_\_\_\_\_\_\_\_\_30 x 5

**c.**12 x 7 \_\_\_\_\_\_9 x 6  **d.** 0 x 100 \_\_\_\_\_\_\_\_\_\_\_100 x 0

**e**. 6 x 8 \_\_\_\_\_\_2 x 3 x 4 x 2 **f.** 23 + 2 \_\_\_\_\_\_\_\_\_\_2 x 23

**g**. 12 x 5 \_\_\_\_\_\_(10 x 5) + (2 x 5) **h.**2 x 3 x 7 x 0\_\_\_\_\_\_\_\_0 x 2 x 3 x7

**2**.Write the number **before** and **after** the given number.

**a)**34 812 4**18**; 34 812 4**19**; 34 812 4**20**

**b)**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_; 120 000 000; \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**c)**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_; 600 000 000; \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**3**. Write the next **3 multiples** of each sequence

**a)** 20; 40; 60; \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_; \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_; \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**b)** 80; 160; 240; \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_; \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_; \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**c)** 400; 800; 1 200; \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_; \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_; \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**4. Fill in the missing numbers**

|  |  |  |  |
| --- | --- | --- | --- |
| **Multiply by** | **10** | **100** | **1000** |
| **23 456** | 234 56**0** | 2 345 6**00** | 23 456 **000** |
|  |  |  |
| **47 304** |  |  |  |
|  |  |  |
| **98 295** |  |  |  |
|  |  |  |
| **69 319** |  |  |  |
|  |  |  |

**5.a**) 8**0 000** x 7**0** = 5 6**00 000b)**4 000 x 800 = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**c**) 20 000 x 60 =\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ **d)**5 000 x 900 = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**e)** 70 000 x 50 =\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ **f)**60 000 x 300 = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Grade 6 Mathematics term 2 2020**

**NUMBERS, OPERATIONS AND RELATIONSHIPS**

**Whole numbers**: Multiplicationby 1- digit numbers.

**1**. **Multiply these numbers. Break them first**

**Example:**23 568 x 6 =(20 000 + 3 000 + 500 + 60 + 8) x **6**

=(20 000 x **6**) + (3 000 x **6**) + (500 x **6**) + (60 x **6**) + (8 x **6**)

=120 000 + 18 000 + 3 000 + 360 + 48

= **141 408**

**2.**Multiply these numbers by using the **vertical method.**

**224**

**Example:1.** 4 326**Example 2.** 4 326

x 8x 8

48 = **8** x 6**34 608**

160 = **8 x 20**

2 400 =**8 x 300a)** 27 349 x 3

+32 000 = **8 x 4 000b)** 34 981 x 7

**34 608c)**49 258 x 9

**d)**92 456 x 8

**a b**

**c d**

**Grade 6 Mathematics term 2 2020**

**NUMBERS, OPERATIONS AND RELATIONSHIPS**

**Whole numbers**:Multiplication by 2- digit numbers.

1Rounding off first and multiply.

**Example:**2 398 x 36 2 **000** x 4**0** = 8**0 000**

**a)** 389x 63**b)** 782 x 78

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**c)** 2 987 x 51**d)** 34 102 x 49

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**2.Multiply these numbers. Break them up into factors first**

**Example**498 x **42** = 498 x **6 x 7** breaking up **42** into its factors

= 498 x **2 x 3** x 7 breaking up **6** into its factors

= (498 x 2) x 3 x 7

= (996 x 3) x 7

= 2 988 x 7

= (2 000 + 900 + 80 + 8) x **7**

= (2 000 x **7**)+(900 x **7**)+(80 x **7**)+(8 x **7**)

= 14 000 + 6 300 +560 + 56

**= 20 916**

**a)** 486 x 56**b)** 823 x 28

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**Grade 6 Mathematics term 2 2020**

**NUMBERS, OPERATIONS AND RELATIONSHIPS**

**Whole numbers**: Multiplication:

1. Multiply these numbers by using the **distributive property**

**Example**: 547 x **45**  = 547 x (**40 + 5)**

= (547 x **40**) + (547 x **5**)

= 21 880 + 2 735

**= 24 615**

**a)**346 x 52 **b)** 623x 43

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**c)** 739 x 65 d) 652 x 98

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2.Multiply these numbers by using the **vertical method.**

**Example:** 4 326

x 28= **20 + 8**

34 608 = **8** x 4 326

+ 86 520 = **20** x 4 326

121128

**a)** 739 x 65**b)** 652 x 98

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**Grade 6 Mathematics term 2 2020**

**NUMBERS, OPERATIONS AND RELATIONSHIPS**

**Whole numbers**: Multiplication by 3-digits

Multiply these numbers by using the **vertical method.**

**Example:**4 326

x 128 = **100 + 20 + 8**

34 608 = **8** x 4 326

86 520 = **20** x 4 326

+432 600 =**100** x 4 326

**553 728**

**a)**4 326 x 217 **b)** 5 237 x 324

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**c)** 7 218 x 145 d) 8 243 x 546

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**Grade 6 Mathematics term 2 2020**

**NUMBERS, OPERATIONS AND RELATIONSHIPS**

**Whole numbers**: Multiplication.**Factor tree**

18

2 9 18 = 2 x 3 x 3 we have written 18 as a product of its **prime factors.**

3 3

1. Complete each factor tree

16 50 75

2

16 =\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 50 = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 75 =­­­­­­­­­­­­­­­\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**2.** Make tree factors for the following numbers.

**36 28**

**31 42**

**Grade 6 Mathematics term 2 2020**

**Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Grade 6 \_\_\_\_\_\_**

**NUMBERS, OPERATIONS AND RELATIONSHIPS**

**Whole numbers**: Multiplication: Revision Test 39

**Instructions:**

* Answer all questions in the spaces provided.
* All working must be shown on the question paper and must not be done on rough paper.
* **THE USE OF A CALCULATOR IS NOT ALLOWED.**
* Always do your best.

1.Multiply these numbers by using the **vertical method.**

**Example:8 976**

**x 9**

**8 0784**

**a) 2** 434 x 8**b)** 766 x 9**c)** 783 x 7

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**d)** 6 789x 3**e)** 4 678 x 5**f)**9 865 x 6

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**g)** 6 348 x 4**h)**5 008 x 2**i)**3 795 x 9

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2.Multiply these numbers by using the **distributive property**

**Example**: 547 x **45** = 547 x (**40 + 5**)

= (547 x **40**) + (547 x **5**)

= 21 880 + 2 735

**= 24 615**

**a)** 434 x18**b)**766 x 78**c)**783 x 83

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**d)** 6 789x 45**e)**4 678 x 43**f)**9 865 x 42

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3.Multiply these numbers by using the **vertical method.**

**Example:**4 326

x 28 = **20 + 8**

34 608 = **8** x 4 326

+86 520 = **20** x 4 326

121 128

**a)**6 348 x 56**b)**5 008 x 95**c)**3 795 x 34

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**d)** 55 876 x 39**e)** 60 006 x 74**f)** 87 444 x 63

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**g)** 601 x 38**h)** 8 822 x 69**i)**3 342 x 87

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4.Multiply these numbers by using the **vertical method.**

**Example:**4 326

x 128 = **100 + 20 + 8**

34 608 = **8** x 4 326

86 520 = **20** x 4 326

+432 600 =**100** x 4 326

**553 728 = 4 326 x 128**

**a)**362 x 234**b)** 543 x 657**c)** 978 x 323

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**d)** 864 x 297**e)** 398 x 445**f)** 767 x 926

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**g)** 468 x 121**h)** 517 x 527**i)** 329 x 231

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**j)** 283 x 465**k)** 5 771 x 453**l)** 6 825 x 365

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**m)** 7 893 x412**n)** 7 434 x 352**o)** 83 528 x 621

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Thank you in supporting your child to utilize this opportunity to enhance his/her mathematical skills.