# Gr 3 - 7 Master Multiplication | Part 1 Memo ALL Learners Must Start Here [Page 1]

Question 1 | Multiples of 2: Part 1

 $[ \times 2 \text{ and } 2 \times$ 



1. Start at 2 and count forwards in twos: 2,4,6,8,10,12,14,16...

2 + 2 + 2 = 6

The third multiple of 2 is 6:

3 twos = 6 $3 \times 2 = 6$ 

These numbers are called multiples of 2.

- Say "3 times 2 is 6"
- 2. Fill in the first ten multiples of 2. Simply count in twos.

												Memorise
		1	2	3	4	5	6	7	8	9	10	the
:	× 2	2	4	6	8	10	12	14	16	18	20	unswers

3. Complete the table.

	Repeated addition	In words	Multiplication form	Answer
a)	2 + 2 + 2	3 twos	3 × 2	6
b)	2 + 2	2 twos	<b>2</b> × 2	4
c)	2+2+2+2	4 twos	<b>4</b> × 2	8
d)	2+2+2+2+2	<mark>5</mark> twos	5 × 2	10



Gr 3 - 7 Master Multiplication | Part 1

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1



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Question 3 | Multiples of 3: Part 1



1. Start at 3 and count forwards in threes:

3 , 6 , 9 , 12 , 15, 18 , 21 , 24...

These numbers are called **multiples** of 3.

- The fourth multiple of 3 is 12:
  3+3+3+3=12
  - 4 threes = 12
  - $4 \times 3 = 12$

Say "4 times 3 is 12"

2. Fill in the first ten multiples of 3. Simply count in threes.

	1	2	3	4	5	6	7	8	9	10	Memorise the
×3	3	6	9	12	15	18	21	24	27	30	answers

# 3. Complete the table.

	Repeated addition	In words	Multiplication form	Answer	2
a)	3 + 3 + 3	3 threes	3 × 3	9	-
b)	3 + 3	2 threes	<b>2</b> × 3	6	
c)	3 + 3 + 3 + 3	4 threes	4 × 3	12	
d)	3 + 3 + 3 + 3 + 3	5 threes	5 × 3	15	

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### 4. Complete:



5. Draw arrows on the number line to show: a)  $4 \times 3$ . Think: 4 groups of 3.



Gr 3 - 7 Master Multiplication | Part 1



Gr 3 - 7 Master Multiplication | Part 1

Question 5 | Multiples of 4: Part 1



1. Start at 4 and count forwards in fours:

4 , 8 , 12 , 16 , 20, 24 , 28 , 32...

These numbers are called **multiples** of 4.

- The third multiple of 4 is 12:
  - 4 + 4 + 4 = 12
  - 3 fours = 12
  - $3 \times 4 = 12$

Say "3 times 4 is 12"

2. Fill in the first ten multiples of 4. Simply count in fours.

	1	2	3	4	5	6	7	8	9	10	Memorise the
×4	4	8	12	16	20	24	28	32	36	40	answers

3. Complete the table.

	Repeated addition	In words	Multiplication form	Answer
a)	4 + 4 + 4	3 fours	3 × 4	12
b)	4 + 4 + 4 + 4	4 fours	<b>4</b> × <b>4</b>	16
c)	4 + 4	2 fours	2 × 4	8
d)	4 + 4 + 4 + 4 + 4 + 4	6 fours	6 × 4	24

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4. Complete:



5. Draw arrows on the number line to show: a)  $3 \times 4$ . Think: 3 groups of 4.



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1. Fill in the first ten multiples of 4.

	1	2	3	4	5	6	7	8	9	10	Memorise
×4	4	8	12	16	20	<b>24</b>	28	32	36	<b>40</b>	answers

- 2. The first six multiples of four are 4, 8, 12, 16, 20, 24. ← 6 fours [STOP]
- 3. Complete:
  - a) The 2nd multiple of 4 = 8.
  - b) The 9th multiple of  $4 = \frac{36}{36}$ .
- 5. Complete:

a)

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2 × 4 = <mark>8</mark>	b)	6 × 4 =	24
3 × 4 = 12		7 × 4 =	28
4 × 4 = 16		8 × 4 =	32
5 × 4 = <mark>20</mark>		9 × 4 =	36

Gr 3 - 7 Master Multiplication | Part 1

a) 16 is four times bigger than 4.

4. Complete:

- b) 40 is ten times bigger than 4.
- 6. Complete:

 $6 \times 4 = 24$ 

 $7 \times 4 = 28$ 

 $10 \times 4 = 40$ 

a)  $3 \times 4 = 12$  b) 4 fours = 16 5 fours = 208 fours = 32

9 fours = 36

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8. Complete:

a)  $3 \times 4 = 12$  b)  $6 \times 4 = 24$  c)  $8 \times 4 = 32$  d) 9 fours = 36  $4 \times 3 = 12$   $4 \times 6 = 24$   $4 \times 8 = 32$ 4 nines = 36

9. Find the number of small squares in each figure, using multiplication.







4. Complete the table.

	Repeated addition	In words	Multiplication form	Answer
a)	10 + 10 + 10	3 tens	3 × 10	30
b)	10 + 10 + 10 + 10	4 tens	4 × 10	40
c)	10 + 10	2 tens	2 × 10	20
d)	10 + 10 + 10 + 10 + 10	5 tens	5 × 10	50

5. Study: Two numbers can be multiplied in any order:  $2 \times 10 = 10 \times 2$ 2 tens = ten twos

6. Complete: a)  $3 \times 10 = 30$  b)  $10 \times 6 = 60$  c)  $5 \times 10 = 50$  d)  $10 \times 9 = 90$ 

7. Study: a) 5 + 0 = 5 Adding zero to a number does not change its value. b)  $5 \times 10 = 50$  Multiplying a number by 10 makes it 10 times bigger.

8. True or False? a)  $8 \times 10 = 8 + 0$  False b)  $3 \times 10 = 10 + 10 + 10$  True

9. There are 3 babies. How many:
a) fingers does 1 baby have? 5 + 5 = 10 fingers
b) fingers do the 3 babies have altogether? 3 × 10 = 30 fingers

Gr 3 - 7 Master Multiplication | Part 1



7. Nico plants apple trees in rows of seven trees each. How many trees will he plant if he plants 3 rows?  $7 \times 3 = 21$  trees

Question 10 | Multiples of 6

# 1. Fill in the first ten multiples of 6.

	1	2	3	4	5	6	7	8	9	10
× 6	6	12	18	24	30	36	42	48	54	<mark>60</mark>

2. Complet

te:	Repeated addition	In words	Multiplication form	Answer
a)	6 + 6 + 6	3 sixes	3 × 6	18
b)	6 + 6 + 6 + 6	4 sixes	4 × 6	24
c)	6+6+6+6+6	5 sixes	5 × 6	<mark>30</mark>

3. Complete the following flow diagrams.



- 4 6. Find the number of small squares in each 6 figure by writing a multiplication sum. b) a) 3  $3 \times 6 = 18$ b)  $4 \times 6 = 24$ or  $6 \times 4 = 24$ a) 6  $^{\rm or}$  6 × 3 = 18
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 $\times$  6 and 6  $\times$ 

Question 11 | Multiples of 7 [\_\_\_\_\_×7 and 7×\_\_\_\_]

1. Fill in the first ten multiples of 7.

	1	2	3	4	5	6	7	8	9	10
× 7	7	14	21	28	35	42	49	56	63	70

2. Complete the table.

	Repeated addition	In words	Multiplication form	Answer
a)	7 + 7	2 sevens	2 × 7	14
b)	7 + 7 + 7	3 sevens	3 × 7	21
c)	7 + 7 + 7 + 7	4 sevens	4 × 7	28
d)	7 + 7 + 7 + 7 + 7	5 sevens	5 × 7	35

3. Draw arrows on the number line to show 3 × 7, below the line. 3 sevens 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25

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- 4. Complete: a) The 6<sup>th</sup> multiple of seven =  $6 \times 7 = 42$ .
  - b) 70 is ten times bigger than 7.
- 5. True or False? 7 + 7 + 7 + 7 = 21 False! 4 sevens = 28.
- 6. Complete:

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a)  $2 \times 7 =$ 14b)  $4 \times 7 =$ 28c)  $6 \times 7 =$ 42d)  $8 \times 7 =$ 56 $7 \times 2 =$ 14 $7 \times 4 =$ 28 $7 \times 7 =$ 49 $9 \times 7 =$ 63

7. The first nine multiples of seven are 7 , 14 , 21 , 28 , 35 , 42 , 49 , 56 , 63.

8. Complete: a)  $2 \times 7 = 14$  b)  $4 \times 7 = 28$  c)  $7 \times 7 = 49$  d)  $9 \times 7 = 63$ 

Question 12 | Multiples of 8 [ \_\_\_\_ × 8 and 8 × \_\_\_ ]

1. Fill in the first ten multiples of 8.

	1	2	3	4	5	6	7	8	9	10
× 8	8	16	24	32	40	48	56	64	72	80

2. Complete the table.

	Repeated addition	In words	Multiplication form	Answer
a)	8 + 8	2 eights	2 × 8	16
b)	8 + 8 + 8	3 eights	3 × 8	<mark>2</mark> 4
c)	8+8+8+8	4 eights	4 × 8	32
d)	8+8+8+8+8	5 eights	5 × 8	40

3. Complete:

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a)	3 × 8 =	24	b)	4 × 8 =	32	C)	6 × 8 =	48	d)	7 × 8 =	56
	8 × 3 =	24		5 × 8 =	40		8 × 6 =	48		9 × 8 =	72

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4. Complete the following flow diagrams.



5. Complete: a) The 7<sup>th</sup> multiple of eight =  $7 \times 8 = 56$ .

b) 80 is ten times bigger than 8.

6. True or False?  $4 \times 8 = 34$  False! It is 32.

7. Complete: a)  $3 \times \frac{8}{8} = 24$  b)  $5 \times \frac{8}{8} = 40$  c)  $\frac{7}{8} \times 8 = 56$  d)  $\frac{8}{8} \times 8 = 64$ 

Gr 3 - 7 Master Multiplication | Part 1

Question 13 | Multiples of 9

 $[ \times 9 \text{ and } 9 \times ]$ 

1. Fill in the first ten multiples of 9.

	1	2	3	4	5	6	7	8	9	10
× 9	9	18	27	36	45	54	63	72	81	90

2. Fill in the first ten multiples of 10.

	1	2	3	4	5	6	7	8	9	10
× 10	10	20	30	40	50	60	70	80	90	100

3. Complete:

a)	10 twos = $20$	b)	10 fours = <mark>40</mark>	C)	10 sixes = <mark>60</mark>	d)	10 nines = <mark>90</mark>
-	1  two = 2	-	<u> 1 four = </u> 4	-	<u> 1 six = </u>	-	1 nine = 9
	9 twos = 18		9 fours = <mark>36</mark>		9 sixes = <mark>54</mark>		9 nines = <mark>81</mark>

4. Complete:

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a)	2 × 9 =	18 b)	4 × 9 =	<mark>36</mark> c)	6 × 9 =	<mark>54</mark> d)	8 × 9 =	<b>72</b>
	3 × 9 =	<b>27</b>	9 × 4 =	<mark>36</mark>	9 × 6 =	<mark>54</mark>	9 × 9 =	81

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- 5. True or False? 9 + 9 + 9 = 27 True. 3 nines = 27.
- 6. Complete: a) The 4<sup>th</sup> multiple of nine =  $4 \times 9 = 36$ .

b) 90 is ten times bigger than 9.

7. Complete:

a)  $9 \times 3 = 27$  b)  $5 \times 9 = 45$  c)  $7 \times 9 = 63$  d)  $9 \times 10 = 90$ 

8. The first seven multiples of nine are 9, 18, 27, 36, 45, 54, 63. ← 7 nines [STOP]

9. Complete: a)  $9 \times 2 = 18$  b)  $4 \times 9 = 36$  c)  $9 \times 8 = 72$  d)  $9 \times 9 = 81$ 

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Question 14a ×1 and ×0	
1. Study: 3 times 1 means "3 ones" and 1 times 3 means "1 three". $3 \times 1 = 3$ Think: $1 + 1 + 1 = 3$ Think: $3 = 3$	
2. Complete: a) $1 \times 2 = 2$ b) $1 \times 5 = 5$ c) $1 \times 8 = 8$ d) $6 \times 1$	= 6
3. Study: Just as $1 + 1 + 1 = 3$ means $3 \times 1 = 3$ so $0 + 0 + 0 = 0$ means $3 \times 0 = 0$ .When a number is multiplied by zero the answer is always zero.	0
4. Complete: a) $0+0=0$ b) $0+0+0+0=0$ c) $0+0+0+0+0+0=0$	= 0
5. Complete: a) $2 \times 0 = 0$ b) $6 \times 0 = 0$ c) $0 \times 9 = 0$ d) $7 \times 0 = $ "2 zeros"	= 0
6. True or False? a) $4 \times 0 = 40$ False 4 times $0 = 0$ b) 8 ones = 81 False 8 ones = 8	
7. Complete:	
a) $12 \times 1 = 12$ b) $18 \times 1 = 18$ c) $25 \times 0 = 0$ d) $1 \times 79 = 7$	79
$12 \times 0 = 0$ $18 \times 0 = 0$ $25 \times 1 = 25$ $79 \times 0 = 0$	0
Question 14bMixed Questions[Up to ×	10]
1. Complete:	
a) $3 \times 7 = 21$ b) $4 \times 6 = 24$ c) $6 \times 8 = 48$ d) $6 \times 9 = 48$	54
$3 \times 9 = 27$ $4 \times 8 = 32$ $7 \times 8 = 56$ $9 \times 9 = 8$	31
2. Mark each correct answer with a " $\checkmark$ ".	
If the answer is incorrect, write the correct answer.	
a) 3 fours = 12 $\checkmark$ d) 96 × 1 = 69 96 g) 9×8 = 78	72
b) $5 \times 6 = 30$ e) $4 \text{ eights} = 32$ h) $7 \text{ sixes} = 76$	42
c) $7 \times 0 = 70$ f) $7 \times 7 = 47$ 49 h) $8 \times 9 = 9 \times 8$	$\checkmark$

Gr 3 - 7 Master Multiplication | Part 1

Play! MathematicsCopying ProhibitedMemo15Question 15Words Sums[Up to ×10]1. There are 6 books in one box.<br/>How many books will there be in 4 boxes?4 × 6 books = 24 books2. How many legs are there altogether on:<br/>a) 3 beds?3 × 4 = 12b) 7 beds?7 × 4 = 28

3. There are 10 cars. Each car has 5 seats.

- There are  $10 \times 5 = 50$  seats in total.
- There are  $9 \times 6 = 54$  books in total.

4. There are 6 shelves with

9 books on each.

- 5. Hannes buys four cupcakes for R5 each and five muffins for R7 each.
  - a) Amount spent on the cupcakes =  $4 \times R5 = R20$
  - b) Amount spent on the muffins =  $5 \times R7 = R35$
  - c) Total amount spent = R20 + R35 = R55

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- 6. A spider has eight legs.
  How many legs do 9 spiders have altogether? 9 × 8 = 72 legs.
- 7. Study the number of balls in each of the following boxes.



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