

# Gr 3 - 7 Master Multiplication | Part 2 Memo

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**Question 1** | 2-digit numbers × 1-digit numbers [12 × 3 etc.]

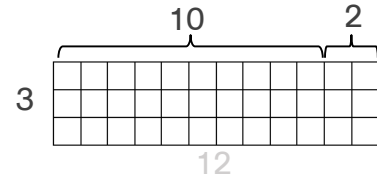
1. Study: 12 × 3 means “12 threes”. It is equal to “3 twelves” or 3 × 12.

Study the vertical-column method:

Multiply the unit digits first.

$$\begin{array}{r}
 12 \quad (10 + 2) \\
 \times 3 \quad ( \quad 3) \\
 \hline
 6 \quad (3 \times 2) \\
 + 30 \quad (3 \times 10) \\
 \hline
 36
 \end{array}$$

Picture it:



Step 1: 12 = 10 + 2.

Step 2: Multiply both 2 and 10 by 3.

Step 3: Add to get the final answer.

2. Write in expanded form: a) 13 = 10 + 3 b) 16 = 10 + 6 c) 19 = 10 + 9

3. Complete using the vertical column method. Multiply the unit digits first.

$$\begin{array}{r}
 \text{a) } 16 \quad (10 + 6) \\
 \times 2 \quad ( \quad 2) \\
 \hline
 12 \quad (2 \times 6) \\
 + 20 \quad (2 \times 10) \\
 \hline
 32
 \end{array}$$

$$\begin{array}{r}
 \text{b) } 14 \\
 \times 2 \\
 \hline
 8 \\
 + 20 \\
 \hline
 28
 \end{array}$$

$$\begin{array}{r}
 \text{c) } 13 \\
 \times 3 \\
 \hline
 9 \\
 + 30 \\
 \hline
 39
 \end{array}$$

$$\begin{array}{r}
 \text{d) } 13 \\
 \times 4 \\
 \hline
 12 \\
 + 40 \\
 \hline
 52
 \end{array}$$

$$\begin{array}{r}
 \text{e) } 15 \\
 \times 3 \\
 \hline
 15 \\
 + 30 \\
 \hline
 45
 \end{array}$$



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$$\begin{array}{r}
 \text{g) } 17 \quad (10 + 7) \\
 \times 4 \quad ( \quad 4) \\
 \hline
 28 \quad (4 \times 7) \\
 + 40 \quad (4 \times 10) \\
 \hline
 68
 \end{array}$$

$$\begin{array}{r}
 \text{h) } 18 \\
 \times 3 \\
 \hline
 24 \\
 + 30 \\
 \hline
 54
 \end{array}$$

$$\begin{array}{r}
 \text{i) } 13 \\
 \times 7 \\
 \hline
 21 \\
 + 70 \\
 \hline
 91
 \end{array}$$

$$\begin{array}{r}
 \text{j) } 17 \\
 \times 6 \\
 \hline
 42 \\
 + 60 \\
 \hline
 102
 \end{array}$$

$$\begin{array}{r}
 \text{k) } 15 \\
 \times 7 \\
 \hline
 35 \\
 + 70 \\
 \hline
 105
 \end{array}$$

$$\begin{array}{r}
 \text{l) } 14 \\
 \times 9 \\
 \hline
 36 \\
 + 90 \\
 \hline
 126
 \end{array}$$

**Question 2** | **x20 to x29: Part 1**



1. Study: We are counting in twenties:

20 , 40 , 60 , 80 , 100, 120, 140 ...

These numbers are multiples of 20.

The third multiple of 20 is 60:

- $20 + 20 + 20 = 60$
- $3 \text{ twenties} = 60$
- $3 \times 20 = 60$

2. Fill in the first ten multiples of 20. *Simply count in twenties.*

	1	2	3	4	5	6	7	8	9	10
$\times 20$	20	40	60	80	100	120	140	160	180	200

3. Complete the table.

	Repeated addition	In words	Multiplication form	Answer
a)	$20 + 20$	2 twenties	$2 \times 20$	40
b)	$20 + 20 + 20$	3 twenties	$3 \times 20$	60
c)	$20 + 20 + 20 + 20$	4 twenties	$4 \times 20$	80



4. Study: To multiply 4 by 20 think of 20 as  $2 \times 10$ :

$$4 \times 20 = 4 \times 2 \times 10$$

$$= 8 \times 10$$

$$= 80$$

5. Complete:

- |                     |                     |                     |                       |
|---------------------|---------------------|---------------------|-----------------------|
| a) $3 \times 2 = 6$ | b) $2 \times 2 = 4$ | c) $4 \times 2 = 8$ | d) $20 \times 1 = 20$ |
| $3 \times 20 = 60$  | $2 \times 20 = 40$  | $4 \times 20 = 80$  | $20 \times 2 = 40$    |
| $20 \times 3 = 60$  | $20 \times 2 = 40$  | $20 \times 4 = 80$  | $20 \times 3 = 60$    |

6. Write in expanded form: a)  $23 = 20 + 3$  b)  $28 = 20 + 8$  c)  $22 = 20 + 2$

7. Complete: Multiply the unit digits first.

a) 24 (20 + 4)
$\times 3$ ( 3)
12 (3 × 4)
+ 60 (3 × 20)
72

b) 23
$\times 2$
6
+ 40
46

c) 26
$\times 3$
18
+ 60
78

d) 26
$\times 4$
24
+ 80
104

e) 29
$\times 4$
36
+ 80
116

**Question 3** |  $\times 20$  to  $\times 29$ : Part 2

 1. Fill in the multiples of 20 between 100 and 200. *Simply count in twenties.*

	5	6	7	8	9	10
$\times 20$	100	120	140	160	180	200

 2. Study: a)  $20 + 20 + 20 + 20 + 20 = 100$   
 thus  $5 \times 20 = 100$ 

 b)  $\overbrace{20 + 20 + 20 + 20 + 20}^{100} + 20 = 120$   
 thus  $6 \times 20 = 120$ 

$$5 \times 20 = 5 \times 2 \times 10$$

$$= 10 \times 10$$

$$= 100$$

$$6 \times 20 = 6 \times 2 \times 10$$

$$= 12 \times 10$$

$$= 120$$



3. Complete:

a)  $5 \times 2 = 10$

b)  $6 \times 2 = 12$

c)  $8 \times 2 = 16$

d)  $9 \times 2 = 18$

$5 \times 20 = 100$

$6 \times 20 = 120$

$8 \times 20 = 160$

$9 \times 20 = 180$

$20 \times 5 = 100$

$20 \times 6 = 120$

$20 \times 8 = 160$

$20 \times 9 = 180$



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4. Complete: Multiply the unit digits first.

a)  $23 (20 + 3)$

$\times 6 ( \quad 6)$

---

 $18 (6 \times 3)$

---

 $+ 120 (6 \times 20)$

---

 $138$

b)  $23$

$\times 5$

---

 $15$

---

 $+ 100$

---

 $115$

c)  $25$

$\times 6$

---

 $30$

---

 $+ 120$

---

 $150$

d)  $21$

$\times 9$

---

 $9$

---

 $+ 180$

---

 $189$

e)  $28$

$\times 7$

---

 $56$

---

 $+ 140$

---

 $196$

5. Complete:

a)  $27 (20 + 7)$

$\times 8 ( \quad 8)$

---

 $^1 56 (8 \times 7)$

---

 $+ 160 (8 \times 20)$

---

 $216$

b)  $25$

$\times 8$

---

 $^1 40$

---

 $+ 160$

---

 $200$

c)  $23$

$\times 9$

---

 $^1 27$

---

 $+ 180$

---

 $207$

d)  $28$

$\times 8$

---

 $^1 64$

---

 $+ 160$

---

 $224$

e)  $29$

$\times 9$

---

 $^1 81$

---

 $+ 180$

---

 $261$

**Question 4** |  $\times 30$  to  $\times 90$ 

1. Fill in the first ten multiples of 30. *Simply count in 30s.*

	1	2	3	4	5	6	7	8	9	10
$\times 30$	30	60	90	120	150	180	210	240	270	300

2. Complete the table.

	Repeated addition	In words	Multiplication form	Answer
a)	$30 + 30 + 30$	3 thirties	$3 \times 30$	90
b)	$30 + 30$	2 thirties	$2 \times 30$	60
c)	$30 + 30 + 30 + 30$	4 thirties	$4 \times 30$	120



3. Study:

$$\begin{aligned} \text{a) } 2 \times 30 &= 2 \times 3 \times 10 \\ &= 6 \times 10 \\ &= 60 \end{aligned}$$

$$\begin{aligned} \text{b) } 8 \times 30 &= 8 \times 3 \times 10 \\ &= 24 \times 10 \\ &= 240 \end{aligned}$$

4. Complete:

a) $4 \times 3 = 12$	b) $6 \times 3 = 12$	c) $9 \times 3 = 27$	d) $5 \times 30 = 150$
$4 \times 30 = 120$	$6 \times 30 = 120$	$9 \times 30 = 270$	$30 \times 5 = 150$



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5. Fill in the first ten multiples of 50. *Simply count in 50s.*

	1	2	3	4	5	6	7	8	9	10
$\times 50$	50	100	150	200	250	300	350	400	450	500

6. Study:

$$\begin{aligned} \text{a) } 4 \times 50 &= 4 \times 5 \times 10 \\ &= 20 \times 10 \\ &= 200 \end{aligned}$$

$$\begin{aligned} \text{b) } 5 \times 70 &= 5 \times 7 \times 10 \\ &= 35 \times 10 \\ &= 350 \end{aligned}$$

7. Complete:

a) $3 \times 5 = 15$	b) $6 \times 4 = 24$	c) $5 \times 8 = 40$	d) $6 \times 7 = 42$
$3 \times 50 = 150$	$6 \times 40 = 240$	$5 \times 80 = 400$	$6 \times 70 = 420$
$30 \times 5 = 150$	$60 \times 4 = 240$	$50 \times 8 = 400$	$60 \times 7 = 420$
$5 \times 30 = 150$	$4 \times 60 = 240$	$8 \times 50 = 400$	$7 \times 60 = 420$

**Question 5** | 2-digit numbers  $\times$  1-digit numbers[45  $\times$  7 etc.]1. Write in expanded form: a)  $34 = 30 + 4$  b)  $58 = \boxed{50} + \boxed{8}$  c)  $92 = \boxed{90} + \boxed{2}$ 

2. Complete: Multiply the unit digits first.

$$\begin{array}{r}
 \text{a) } 34 \quad (30 + 4) \\
 \times 3 \quad ( \quad 3) \\
 \hline
 12 \quad (3 \times 4) \\
 \hline
 + 90 \quad (3 \times 30) \\
 \hline
 102 \\
 \hline
 \end{array}$$

$$\begin{array}{r}
 \text{b) } 34 \\
 \times 2 \\
 \hline
 8 \\
 \hline
 + 60 \\
 \hline
 68 \\
 \hline
 \end{array}$$

$$\begin{array}{r}
 \text{c) } 49 \\
 \times 2 \\
 \hline
 18 \\
 \hline
 + 80 \\
 \hline
 98 \\
 \hline
 \end{array}$$

$$\begin{array}{r}
 \text{d) } 35 \\
 \times 3 \\
 \hline
 15 \\
 \hline
 + 90 \\
 \hline
 105 \\
 \hline
 \end{array}$$

$$\begin{array}{r}
 \text{e) } 39 \\
 \times 3 \\
 \hline
 27 \\
 \hline
 + 90 \\
 \hline
 117 \\
 \hline
 \end{array}$$



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3. Complete: Multiply the unit digits first.

$$\begin{array}{r}
 \text{a) } 46 \quad (40 + 6) \\
 \times 3 \quad ( \quad 3) \\
 \hline
 18 \quad (3 \times 6) \\
 \hline
 + 120 \quad (3 \times 40) \\
 \hline
 138 \\
 \hline
 \end{array}$$

$$\begin{array}{r}
 \text{b) } 62 \\
 \times 3 \\
 \hline
 6 \\
 \hline
 + 180 \\
 \hline
 186 \\
 \hline
 \end{array}$$

$$\begin{array}{r}
 \text{c) } 56 \\
 \times 4 \\
 \hline
 24 \\
 \hline
 + 200 \\
 \hline
 224 \\
 \hline
 \end{array}$$

$$\begin{array}{r}
 \text{d) } 38 \\
 \times 7 \\
 \hline
 56 \\
 \hline
 + 210 \\
 \hline
 266 \\
 \hline
 \end{array}$$

$$\begin{array}{r}
 \text{e) } 98 \\
 \times 6 \\
 \hline
 48 \\
 \hline
 + 540 \\
 \hline
 588 \\
 \hline
 \end{array}$$

4. Complete: Multiply the unit digits first.

$$\begin{array}{r}
 \text{a) } 37 \quad (30 + 7) \\
 \times 6 \quad ( \quad 6) \\
 \hline
 1 \ 42 \quad (6 \times 7) \\
 \hline
 + 180 \quad (6 \times 30) \\
 \hline
 222 \\
 \hline
 \end{array}$$

$$\begin{array}{r}
 \text{b) } 43 \\
 \times 7 \\
 \hline
 1 \ 21 \\
 \hline
 + 280 \\
 \hline
 301 \\
 \hline
 \end{array}$$

$$\begin{array}{r}
 \text{c) } 69 \\
 \times 6 \\
 \hline
 1 \ 54 \\
 \hline
 + 360 \\
 \hline
 414 \\
 \hline
 \end{array}$$

$$\begin{array}{r}
 \text{d) } 89 \\
 \times 7 \\
 \hline
 1 \ 63 \\
 \hline
 + 560 \\
 \hline
 623 \\
 \hline
 \end{array}$$

$$\begin{array}{r}
 \text{e) } 79 \\
 \times 8 \\
 \hline
 1 \ 72 \\
 \hline
 + 560 \\
 \hline
 632 \\
 \hline
 \end{array}$$

**Question 6 | Short Method: Part 1**

[2-digit × 1-digit]

1. Complete:

a)  $3 \times 2$  units  
= 6 units

b)  $2 \times 2$  units  
= **4** units

c)  $2 \times 4$  tens  
= 8 tens

d)  $3 \times 3$  tens  
= **9** tens

2. Complete:

Multiply the unit digits first.

TU
a) $\begin{array}{r} 43 \text{ (4T + 3U)} \\ \times 2 \text{ ( 2U)} \\ \hline 86 \text{ (8T + 6U)} \\ \hline \end{array}$

TU
b) $\begin{array}{r} 34 \\ \times 2 \\ \hline 68 \\ \hline \end{array}$

TU
c) $\begin{array}{r} 24 \\ \times 2 \\ \hline 48 \\ \hline \end{array}$

TU
d) $\begin{array}{r} 22 \\ \times 3 \\ \hline 66 \\ \hline \end{array}$

TU
e) $\begin{array}{r} 44 \\ \times 2 \\ \hline 88 \\ \hline \end{array}$



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3. Write in expanded form:

a)  $12 = 1T + 2U$

b)  $24 = \mathbf{2}T + \mathbf{4}U$

c)  $45 = \mathbf{4}T + \mathbf{5}U$

d)  $72 = \mathbf{7}T + \mathbf{2}U$

4. Complete:

a)  $3 \times 4$  units  
= 12 units  
= 1 ten 2 units

b)  $5 \times 3$  units  
= **15** units  
= **1** ten **5** units

c)  $4 \times 6$  units  
= **24** units  
= **2** tens **4** units

d)  $8 \times 4$  units  
= **32** units  
= **3** tens **2** units

5. Study:

**Step 1:**

TU	
$\begin{array}{r} 123 \\ \times 4 \\ \hline 2 \\ \hline \end{array}$	$4 \times 3$ units = 12 units = <b>1 ten + 2 units</b>

**Step 2:**

TU	
$\begin{array}{r} 123 \\ \times 4 \\ \hline 92 \\ \hline \end{array}$	$4 \times 2T = 8T$ and $8T + 1T = 9T$

6. Complete:

TU
a) $\begin{array}{r} 124 \\ \times 4 \\ \hline 96 \\ \hline \end{array}$

$\begin{array}{r} 136 \\ \times 2 \\ \hline 72 \\ \hline \end{array}$
---

$\begin{array}{r} 126 \\ \times 3 \\ \hline 78 \\ \hline \end{array}$
---

$\begin{array}{r} 216 \\ \times 4 \\ \hline 64 \\ \hline \end{array}$
---

$\begin{array}{r} 227 \\ \times 3 \\ \hline 81 \\ \hline \end{array}$
---

$\begin{array}{r} 214 \\ \times 7 \\ \hline 98 \\ \hline \end{array}$
---

**Question 7a** | Short Method: Part 2 [2-digit × 1-digit]

1. Study: a) 8 tens + 2 tens = 10 tens and 10 tens = 100 [1H]  
 b) 8 tens + 4 tens = 12 tens and 12 tens = 120 [1H + 2T]

2. Complete: “T” stands for “tens”.

- a)  $7T + 3T = 10T$     b)  $9T + 3T = 12T$     c)  $8T + 6T = 14T$     d)  $7T + 6T = 13T$

<p>3. Study:</p> $\begin{array}{r} \text{TU} \\ ^2 26 \\ \times 4 \\ \hline 4 \end{array}$ <p><math>4 \times 6 \text{ units} = 24 \text{ units}</math>  <math>= 2 \text{ tens} + 4 \text{ units}</math></p>	<p>Step 2:</p> $\begin{array}{r} \text{HTU} \\ ^2 26 \\ \times 4 \\ \hline 102 \end{array}$ <p><math>4 \times 2T = 8T</math>          and  <math>8T + 2T = 10T</math> [100]</p>
---	---

4. Complete:

$$\begin{array}{r} \text{HTU} \\ \text{a) } ^3 14 \\ \times 8 \\ \hline 112 \end{array}$$

$$\begin{array}{r} \text{b) } ^2 39 \\ \times 3 \\ \hline 117 \end{array}$$

$$\begin{array}{r} \text{c) } ^2 25 \\ \times 4 \\ \hline 100 \end{array}$$

$$\begin{array}{r} \text{d) } ^6 19 \\ \times 7 \\ \hline 133 \end{array}$$

$$\begin{array}{r} \text{e) } ^2 37 \\ \times 3 \\ \hline 111 \end{array}$$

$$\begin{array}{r} \text{f) } ^7 18 \\ \times 9 \\ \hline 162 \end{array}$$

Step 2:  $8T + 3T = 11T$

Step 2:  
 $9T + 2T = 11T$



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**Question 7b** | Short Method: Part 3 [2-digit × 1-digit]

1. Complete: “T” stands for “tens” and “H” for “hundreds”.

- |  |  |  |  |
|--|--|--|--|
| a) $3 \times 4 \text{ tens} = 12 \text{ tens} = 1H + 2T$ | b) $4 \times 6 \text{ tens} = 24 \text{ tens} = 2H + 4T$ | c) $7 \times 5 \text{ tens} = 35 \text{ tens} = 3H + 5T$ | d) $8 \times 9 \text{ tens} = 72 \text{ tens} = 7H + 2T$ |
|--|--|--|--|

2. Complete:

$$\begin{array}{r} \text{HTU} \\ \text{a) } 42 \\ \times 3 \\ \hline 126 \end{array}$$

$$\begin{array}{r} \text{b) } 52 \\ \times 2 \\ \hline 104 \end{array}$$

$$\begin{array}{r} \text{c) } 63 \\ \times 3 \\ \hline 189 \end{array}$$

$$\begin{array}{r} \text{d) } 72 \\ \times 3 \\ \hline 216 \end{array}$$

$$\begin{array}{r} \text{e) } 81 \\ \times 9 \\ \hline 729 \end{array}$$

3. Complete: "T" stands for "tens".

a)  $15T + 3T = 18T$    b)  $26T + 2T = 28T$    c)  $30T + 8T = 38T$    d)  $63T + 5T = 68T$

4. Study:

**Step 1:**

$$\begin{array}{r} \text{TU} \\ ^143 \\ \times 6 \\ \hline 8 \\ \hline \end{array} \quad \begin{array}{l} 6 \times 3 \text{ units} \\ = 18 \text{ units} \\ = 1 \text{ ten} + 8 \text{ units} \end{array}$$

**Step 2:**

$$\begin{array}{r} \text{HTU} \\ ^143 \\ \times 6 \\ \hline 258 \\ \hline \end{array} \quad \begin{array}{l} 6 \times 4T = 24T \\ \text{and} \\ 24T + 1T = 25T \text{ [250]} \end{array}$$

5. Complete:

$$\begin{array}{r} \text{HTU} \\ \text{a) } ^254 \\ \times 6 \\ \hline 324 \\ \hline \end{array}$$

$$\begin{array}{r} \text{b) } ^184 \\ \times 3 \\ \hline 252 \\ \hline \end{array}$$

$$\begin{array}{r} \text{c) } ^295 \\ \times 4 \\ \hline 380 \\ \hline \end{array}$$

$$\begin{array}{r} \text{d) } ^358 \\ \times 4 \\ \hline 232 \\ \hline \end{array}$$

$$\begin{array}{r} \text{e) } ^365 \\ \times 7 \\ \hline 455 \\ \hline \end{array}$$

$$\begin{array}{r} \text{f) } ^598 \\ \times 7 \\ \hline 686 \\ \hline \end{array}$$



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**Question 8 | Short Method: Part 4**

[2-digit × 1-digit]

1. Complete: "T" stands for "tens".

a)  $18T + 3T = 21T$    b)  $27T + 5T = 32T$    c)  $39T + 5T = 44T$    d)  $72T + 8T = 80T$

2. Complete:

$$\begin{array}{r} \text{HTU} \\ \text{a) } ^345 \\ \times 7 \\ \hline 315 \\ \hline \end{array}$$

$$\begin{array}{r} \text{b) } ^234 \\ \times 6 \\ \hline 204 \\ \hline \end{array}$$

$$\begin{array}{r} \text{c) } ^336 \\ \times 6 \\ \hline 216 \\ \hline \end{array}$$

$$\begin{array}{r} \text{d) } ^378 \\ \times 4 \\ \hline 312 \\ \hline \end{array}$$

$$\begin{array}{r} \text{e) } ^536 \\ \times 9 \\ \hline 324 \\ \hline \end{array}$$

$$\begin{array}{r} \text{f) } ^598 \\ \times 7 \\ \hline 686 \\ \hline \end{array}$$

$$\begin{array}{r} \text{g) } ^567 \\ \times 8 \\ \hline 536 \\ \hline \end{array}$$

$$\begin{array}{r} \text{h) } ^589 \\ \times 6 \\ \hline 534 \\ \hline \end{array}$$

$$\begin{array}{r} \text{i) } ^476 \\ \times 7 \\ \hline 532 \\ \hline \end{array}$$

$$\begin{array}{r} \text{j) } ^758 \\ \times 9 \\ \hline 522 \\ \hline \end{array}$$

$$\begin{array}{r} \text{k) } ^678 \\ \times 8 \\ \hline 624 \\ \hline \end{array}$$

$$\begin{array}{r} \text{l) } ^869 \\ \times 9 \\ \hline 621 \\ \hline \end{array}$$

Step 2:  $8 \times 6T = 48T$  and  $48T + 5T = 53T$



## Question 9 | Word Sums

1. One litre of juice costs R8.

- a) The cost of 2 litres of the juice =  $2 \times R8 = R16$ .
- b) The cost of 5 litres of the juice =  $5 \times R8 = R40$ .
- c) The cost of 12 litres of the juice =  $12 \times R8 = R96$ .

2. One bag of tomatoes cost R26.

- a) The cost of 2 bags of tomatoes =  $2 \times R26 = R52$ .
- b) The cost of 4 bags of tomatoes =  $4 \times R26 = R104$ .
- c) The cost of 9 bags of tomatoes =  $9 \times R26 = R234$ .



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3. The following items are sold at the second-hand toy shop.



R35



R28



R15



R8

- a) How much will 4 books cost?  $4 \times R15 = R60$
- b) How much will 13 paintbrushes cost?  $13 \times R8 = R104$
- c) How much will 8 teddy bears cost?  $8 \times R28 = R224$
- d) How much change will I receive if I pay for 5 paintbrushes with a R50 note?  
 $R50 - (5 \times R8) = R50 - R40 = R10$
- e) How much will 3 soccer balls and 2 books cost in total?  
 $(3 \times R35) + (2 \times R15) = R105 + R30 = R135$

4. Nkosi is on holiday for 7 days. He does 45 push-ups every day.

How many push-ups does he do altogether?  $45 \times 7 = 315$  push-ups.

5. A factory makes 78 toys in one day. How many toys are made in:

- a) 2 days?  $2 \times 78$  toys = 156 toys
- b) 7 days?  $7 \times 78$  toys = 546 toys