Day 1

1. Read carefully:
   a) The place or position of a digit in a number gives the value of that digit.
   b) In the number 273, 2, 7 and 3 are called digits. 2 is the hundreds digit, 7 the tens digit and 3 the units digit.
   c) In the number 273, the value of digit 2 is 200, the value of digit 7 is 70 and the value of digit 3 is 3.
   d) 273 is read “two hundred and seventy-three”.
   e) 273 written in expanded form is 200 + 70 + 3 or 2 hundreds + 7 tens + 3 units.
   f) 273 contains 273 units, 27 tens or 2 hundreds.

2. a) The units digit in the number 74 is ___________
   b) The tens digit in the number 236 is ___________
   c) The tens digit in the number 326 is ___________
   d) The hundreds digit in the number 362 is ___________

3. “Break-down” each number into hundreds, tens and units.

   Example: 456 = 400 + 50 + 6 or 456 = 4×100 + 5×10 + 6 or 4H + 5T + 6U

   a) 214 = __________________________
   b) 421 = __________________________
   c) 142 = __________________________
   d) 392 = __________________________
   e) 239 = __________________________

4. Write each of the expanded numbers in short form.

   Example: 500 + 40 + 3 = 543
   a) 700 + 30 + 1 = ______________
   b) 100 + 60 + 9 = ____________
   c) 300 + 50 + 6 = ______________
   d) 600 + 20 + 8 = ____________
   e) 400 + 80 + 8 = ______________

5. In the number 572,
   a) the value of digit 7 is ______
   b) the value of digit 5 is ______
6. In the number 458,
   a) the value of digit 4 is _____
   b) the value of digit 5 is _____

7. Write down the number which contains
   a) 4 units, 5 tens and 6 hundreds _______________________________
   b) 7 units, 8 tens and 0 hundreds _______________________________
   c) 15 units and 7 tens _______________________________
   d) 36 units and 4 hundreds _______________________________
   e) 0 units, 13 tens and 2 hundreds _______________________________

8. Complete:
   a) In 237 there are _____ units, _____ tens or _____ hundreds.
   b) In 309 there are _____ units, _____ tens or _____ hundreds.
   c) In 485 there are _____ units, _____ tens or _____ hundreds.

9. Write down the given numbers from the smallest to the greatest.
   a) 125  142  152  124  215 ______________________________
   b) 237  537  137  337  437 ______________________________
   c) 475  465  425  415  445 ______________________________

10. Write down the given numbers from the greatest to the smallest.
    a) 104  102  109  107  103 ______________________________
    b) 522  526  528  520  524 ______________________________
    c) 335  325  345  35  355 ______________________________
    d) 572  372  672  772  472 ______________________________
Day 2.

1. Write down the number name for each of the following.

   a) 167 ___________________ ________________________________
   b) 308 ___________________ ________________________________
   c) 243 ___________________ ________________________________
   d) 359 ___________________ ________________________________
   e) 491 ___________________ ________________________________
   f) 234 ___________________ ________________________________

2. Write down the number symbol and number name for the whole number that is between

   a) 169 and 171 _______________ ________________________________
   b) 311 and 313 _______________ ________________________________

3. Write down the number symbol and the number name for the whole number that comes directly before

   a) 138 ___________________ ________________________________
   b) 271 ___________________ ________________________________
   c) 320 ___________________ ________________________________

4. Write down the number symbol and the number name for the whole number that comes directly after

   a) 246 ___________________ ________________________________
   b) 329 ___________________ ________________________________
   c) 460 ___________________ ________________________________
5. Write "is greater than" or "is less than" between each pair of numbers to make the correct sentences.

Examples: a) 343 is greater than 243  
         b) 227 is less than 272  
         c) 526 _____________ 562  
         d) 684 _____________ 648  
         e) 435 _____________ 465  
         f) 278 _____________ 287  
         g) 702 _____________ 692  
         h) 303 _____________ 330

6. Write down the missing numbers on each number line.

   a)  
      |           |           |           |           |           |           |  
      126        128        130  
   
   b)  
      |           |           |           |           |           |           |  
      168      170          176  
   
   c)  
      |           |           |           |           |           |           |  
      243             249      252  
   
   d)  
      |           |           |           |           |           |           |  
      355        365      370  
   
   e)  
      |           |           |           |           |           |           |  
      424             428      436  
   
   f)  
      |           |           |           |           |           |           |  
      470     480              510  
   
   g)  
      |           |           |           |           |           |           |  
      350      450          750  
   
   h)  
      |           |           |           |           |           |           |  
      650        750      800  

Page 4 of 21
Day 3.

1. Write down the answers as quickly as you can.

a) 5 + 3 = _____  b) 6 + 5 = _____  c) 9 + 3 = _____  d) 7 + 6 = _____

7 + 2 = _____  7 + 4 = _____  7 + 5 = _____  8 + 5 = _____

3 + 4 = _____  8 + 3 = _____  8 + 4 = _____  9 + 4 = _____

2 + 3 = _____  9 + 2 = _____  6 + 6 = _____  4 + 9 = _____

e) 11 + 4 = _____  f) 12 + 3 = _____  g) 13 + 4 = _____  h) 14 + 3 = _____

11 + 6 = _____  12 + 6 = _____  13 + 6 = _____  14 + 5 = _____

11 + 9 = _____  12 + 8 = _____  13 + 7 = _____  14 + 6 = _____

i) 15 + 2 = _____  j) 16 + 1 = _____  k) 17 + 1 = _____  l) 16 + 3 = _____

15 + 4 = _____  16 + 2 = _____  17 + 2 = _____  17 + 4 = _____

15 + 5 = _____  16 + 4 = _____  17 + 3 = _____  16 + 3 = _____
2. Complete the following addition sums.
   a) 1 + 1 + 7 = _____  b) 4 + 1 + 1 = _____  c) 1 + 5 = ___  d) 5 + 6 = ___
   1 + 2 + 7 = _____  6 + 1 + 1 = _____  1 + 7 = ___  5 + 8 = ___
   1 + 2 + 5 = ___  7 + 1 + 1 = _____  1 + 9 = ___  5 + 9 = ___
   e) 6 + 6 = ____  f) 7 + 5 = ____  g) 6 + 6 = ____  h) 9 + 5 = ___
   6 + 8 = _____  7 + 7 = _____  6 + 7 = ___  9 + 7 = ___
   6 + 9 = _____  7 + 8 = _____  6 + 9 = ___  9 + 9 = ___

3. Fill up tens to complete. Example: 17 + 9 + 3 = 29 because 17 + 3 = 20.
   a) 14 + 8 + 6 = ______  b) 17 + 7 + 9 = ______  c) 12 + 9 + 8 = ______
   16 + 9 + 4 = ______  18 + 7 + 2 = ______  19 + 8 + 1 = ______
   b) 11 + 7 + 9 = ______  c) 13 + 9 + 7 = _____  d) 14 + 9 + 6 = ______

4. Write down the next 4 numbers in each sequence.
   a) 240 ; 243 ; 246 ; _____________________________________
   b) 240 ; 245 ; 250 ; _____________________________________
   c) 240 ; 244 ; 248 ; _____________________________________
   d) 240 ; 250 ; 260 ; _____________________________________

5. Write down the next 3 numbers in each sequence.
   a) 200 ; 300 ; 400 ; _____________________________________
   b) 350 ; 400 ; 450 ; _____________________________________
   c) 420 ; 440 ; 460 ; _____________________________________
   d) 700 ; 720 ; 740 ; _____________________________________
   e) 700 ; 725 ; 750 ; _____________________________________
   f) 525 ; 550 ; 575 ; _____________________________________

6. Write down the answers only.
   a) 130 + 60 = ________  b) 240 + 50 = ________  c) 350 + 80 = __________
   137 + 60 = ________  246 + 50 = ________  357 + 80 = __________
   160 + 30 = ________  246 + 50 = ________  357 + 80 = __________
   164 + 30 = ________  270 + 70 = ________  480 + 90 = __________
   b) 17 + 5 = __________  c) 19 + 7 = __________  d) 19 + 9 = __________
7. Calculate by “adding on”.

Example: 357 + 49
Answer: 357 + 40 \rightarrow 397 + 9 \rightarrow 406

a) 263 + 16
\[ 263 + 10 \rightarrow \blank + \blank \rightarrow \blank + 6 \rightarrow \blank \]

b) 348 + 233
\[ \text{---} \]

c) 574 + 18
\[ \text{---} \]

d) 49 + 265
\[ \text{---} \]

8. Calculate by “filling up” tens.

Example: 267 + 76 or 76 + 267
\[
= 267 + 3 + 73 = 76 + 4 + 263 \\
= 270 + 73 \quad 27 \text{ tens} + 7 \text{ tens} = 27 \text{ tens} + 7 \text{ tens} \\
= 343 \quad = 343 \\
\]

a) 194 + 69
\[
\text{---} \]

b) 289 + 149
\[
\text{---} \\
\text{---} \\
\text{---} \\
\]

Day 4. Addition of 3-digit numbers using various methods.

1. “Break-down” both numbers and then add units, tens and hundreds

Method 1

\[
\begin{align*}
263 + 326 &= 200 + 60 + 3 + 300 + 20 + 6 \\
&= 200 + 300 + 60 + 20 + 3 + 6 \\
&= 500 + 80 + 9 \\
&= 589 \\
\end{align*}
\]

a) 318 + 276
\[
\text{---} \\
\text{---} \\
\text{---} \\
\text{---} \\
\]

b) 289 + 149
\[
\text{---} \\
\text{---} \\
\text{---} \\
\]

\[ \text{---} \]
Method 2.

<table>
<thead>
<tr>
<th>Calculated:</th>
<th>236 + 326</th>
<th>a) 347 + B4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Answer:</td>
<td>3 + 6 = 9</td>
<td>------------</td>
</tr>
<tr>
<td>and</td>
<td>60 + 20 = 80</td>
<td>------------</td>
</tr>
<tr>
<td>and</td>
<td>200 + 300 = 500</td>
<td></td>
</tr>
<tr>
<td>means</td>
<td>263 + 326 = 589</td>
<td></td>
</tr>
</tbody>
</table>

b) 454 + B8

c) 514 + 279

d) 76 + 286

e) 558 + B6
**Method 3.**

**Calculate:**  
268 + 475  

**Answer:**  
268 = 200 + 60 + 8  
+ 475 = 400 + 70 + 5  
268 + 475 = 600 + 130 + 13  
= 743

b)  
416 = ____________________  
+ 259 = ____________________  
= ____________________  
= ____________________  
= ____________________

c)  
593 = ____________________  
+ 25 = ____________________  
= ____________________  
= ____________________  
= ____________________

2.

<p>| | | | | | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>5</td>
<td>10</td>
<td>15</td>
<td>20</td>
<td>25</td>
<td>30</td>
</tr>
</tbody>
</table>

Use the above number line to round off each of the given numbers to the nearest 10.

**Examples:**

a) 14 rounded off to the nearest 10 is 10. (14 is closer to 10 than to 20)

b) 17 rounded off to the nearest 10 is 20. (17 is closer to 20 than to 10)

c) 15 rounded off to the nearest 10 is 20. (15 is equally far from 10 and 20)

d) 28 rounded off to the nearest 10 is ___ (28 is closer to ___ than ___)

e) 23 rounded off to the nearest 10 is ___ (23 is closer to ___ than ___)

f) 25 rounded off to the nearest 10 is ___ (25 is _________________)

3.

<table>
<thead>
<tr>
<th>Number</th>
<th>Number rounded off to the nearest 10</th>
</tr>
</thead>
<tbody>
<tr>
<td>76</td>
<td></td>
</tr>
<tr>
<td>13</td>
<td></td>
</tr>
<tr>
<td>25</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Number</th>
<th>Number rounded off to the nearest 10</th>
</tr>
</thead>
<tbody>
<tr>
<td>247</td>
<td></td>
</tr>
<tr>
<td>724</td>
<td></td>
</tr>
<tr>
<td>465</td>
<td></td>
</tr>
</tbody>
</table>
Day 5.

1. Write down the answers as quickly as you can.

   a) 10 - 3 = _____
   b) 10 - 5 = _____
   c) 10 - 8 = _____
   d) 10 - 9 = _____
   e) 11 - 2 = _____
   f) 11 - 4 = _____
   g) 11 - 6 = _____
   h) 11 - 8 = _____
   i) 12 - 4 = _____
   j) 12 - 5 = _____
   k) 12 - 8 = _____
   l) 12 - 9 = _____
   m) 13 - 4 = _____
   n) 13 - 6 = _____
   o) 13 - 7 = _____
   p) 13 - 8 = _____
   q) 14 - 3 = _____
   r) 14 - 6 = _____
   s) 14 - 7 = _____
   t) 14 - 9 = _____
   u) 15 - 4 = _____
   v) 15 - 7 = _____
   w) 15 - 8 = _____
   x) 15 - 9 = _____
   y) 16 - 7 = _____
   z) 16 - 8 = _____
   A) 17 - 8 = _____
   B) 17 - 9 = _____
   C) 18 - 9 = _____
   D) 18 - 18 = _____
   E) 19 - 9 = _____
   F) 19 - 19 = _____

2. Calculate.

   a) 16 - 3 - 4 = __
   b) 16 - 7 - 2 = __
   c) 16 - 5 - 3 = __
   d) 17 - 5 - 4 = __
   e) 17 - 6 - 5 = __
   f) 17 - 8 - 2 = __
   g) 18 - 5 - 4 = __
   h) 18 - 8 - 5 = __
   i) 18 - 9 - 2 = __
   j) 19 - 6 - 5 = __
   k) 19 - 7 - 8 = __
   l) 19 - 8 - 6 = __

3. Complete:

   a) ______ is 5 less than 41
   b) ______ is 7 less than 72
   c) ______ is 8 less than 63
   d) ______ is 9 less than 63
   e) ______ is 10 less than 158
   f) ______ is 60 less than 173
   g) ______ is 40 less than 386
   h) ______ is 40 less than 386
   i) ______ is 60 less than 438
   j) ______ is 70 less than 348
   k) ______ is 80 less than 451
   l) ______ is 80 less than 451

4. Complete:

   a) 35 is 7 more than ______
   b) 44 is 6 more than ______
   c) 58 is 9 more than ______
   d) 87 is 20 more than ______
   e) 73 is 40 more than ______
   f) 129 is 30 more than ______
   g) 133 is 70 more than ______
   h) 212 is 50 more than ______

5. Write down the next 4 numbers in each sequence.

   a) 174 ; 173 ; 172 ; __________________________
   b) 174 ; 172 ; 170 ; __________________________
6. Write down the next 3 numbers in each sequence.
   a) 900 ; 800 ; 700 ; ____________________________
   b) 650 ; 600 ; 550 ; ____________________________
   c) 380 ; 360 ; 340 ; ____________________________
   d) 700 ; 680 ; 660 ; ____________________________
   e) 400 ; 375 ; 350 ; ____________________________
   f) 875 ; 850 ; 825 ; ____________________________

7. “Break-down” the smaller number and subtract each part.

Example:

<table>
<thead>
<tr>
<th>Example:</th>
<th>168 - 76</th>
</tr>
</thead>
<tbody>
<tr>
<td>Answer:</td>
<td>168 - 70 \rightarrow 98 - 6 \rightarrow 92 or 168 - 76 = 168 - 70 - 6</td>
</tr>
<tr>
<td></td>
<td>= 98 - 6</td>
</tr>
<tr>
<td></td>
<td>= 92</td>
</tr>
</tbody>
</table>

a) \( \Box 4 - 87 \rightarrow \Box 4 - \underline{____} \rightarrow \underline{____} - \underline{____} \rightarrow \underline{____} \) 
   or \( \Box 7 - 87 = \Box 4 - \underline{____} - \underline{____} \)
   = \underline{____} - \underline{____} 
   = \underline{____}

b) 356 - \( \Box 7 \rightarrow 356 - \underline{____} \rightarrow \underline{____} - \underline{____} \rightarrow \underline{____} \)
   or \( 356 - \Box 7 = \underline{____} \rightarrow \underline{____} - \underline{____} \rightarrow \underline{____} \)
   = \underline{____} 
   = \underline{____} 
   = \underline{____} 

c) \( \Box 41 - 238 \rightarrow \underline{____} \rightarrow \underline{____} - \underline{____} \rightarrow \underline{____} \)
   or \( 441 - 238 = \underline{____} \rightarrow \underline{____} - \underline{____} \rightarrow \underline{____} \)
   = \underline{____} 
   = \underline{____} 
   = \underline{____}
Day 6. Subtraction of 3-digit numbers from 3-digit numbers using various methods.

1. “Break-down” both numbers, subtract the units from one another, the tens from one another and the hundreds from one another. Remember to subtract 46 means to subtract 40 and then subtract 6 or subtract 6 and then subtract 40.

**Method 1**

<table>
<thead>
<tr>
<th>369 - 24</th>
<th>478 - 216</th>
</tr>
</thead>
<tbody>
<tr>
<td>300 + 60 + 9 - 100 - 30 - 4</td>
<td>= -------------------------------</td>
</tr>
<tr>
<td>300 - 100 + 60 - 30 + 9 - 4</td>
<td>= -------------------------------</td>
</tr>
<tr>
<td>200 + 30 + 5</td>
<td>= -------------------------------</td>
</tr>
<tr>
<td>= 235</td>
<td>= -------------------------------</td>
</tr>
</tbody>
</table>

b) 274 - 13
   = -------------------------------
   = -------------------------------
   = -------------------------------
   = -------------------------------
   = 135

c) 597 - 254
   = -------------------------------
   = -------------------------------
   = -------------------------------
   = -------------------------------
   = 343

**Method 2.**

Example: Calculate 277 - 142

Answer: 7 - 2 = 5
and 70 - 40 = 30
and 200 - 100 = 100
means 277 - 142 = 135

a) 369 - 247
   = -------------------------------
   = -------------------------------
   = -------------------------------
   = -------------------------------
   = 122

b) 585 - 324
   = -------------------------------
   = -------------------------------
   = -------------------------------
   = -------------------------------
   = 261

c) 467 - 254
   = -------------------------------
   = -------------------------------
   = -------------------------------
   = -------------------------------
   = 213
2. Complete:
   a) $167 = 100 + 60 + 7$ or $167 = 100 + 50 + \underline{\ ? }$
   b) $254 = 200 + 50 + 4$ or $254 = 200 + \underline{\ ? } + 4$
   c) $328 = 300 + 20 + 8$ or $328 = 300 + \underline{\ ? } + \underline{\ ? }$ or $200 + \underline{\ ? } + 8$
   d) $473 = 400 + 70 + 3$ or $473 = 400 + 60 + \underline{\ ? }$ or $300 + \underline{\ ? } + 3$

3. “Break-down” both numbers to calculate the answers.

**Extension of method 1**

\[
\begin{array}{l}
263 - 127 \\
= 200 + 60 + 3 - 100 - 20 - 7 \\
= 200 + 50 + 13 - 100 - 20 - 7 \\
= 200 - 100 + 50 - 20 + 13 - 7 \\
= 100 + 30 + 6 \\
= 136
\end{array}
\]

a) $345 - 138$

b) $466 - 238$

c) $574 - 259$

d) $657 - 329$

e) $329 - 146$

f) $425 - 274$
Day 7.

1. Extension of method 2.

<table>
<thead>
<tr>
<th>Example: Calculate 263 - 27</th>
<th>a) 454 - 25</th>
</tr>
</thead>
<tbody>
<tr>
<td>Answer: B - 7 = 6 [263 = 200 + 50 + 13] and 50 - 20 = 30 and 200 - 100 = 100 means 263 - 27 = B6</td>
<td></td>
</tr>
<tr>
<td>b) 349 - 136</td>
<td></td>
</tr>
<tr>
<td>c) 468 - 275</td>
<td></td>
</tr>
</tbody>
</table>

Method 3.

| Examples: Calculate 346 - 123 and 455 - 263 |
|-----------------------------|--------------|
| Answers: 346 = 300 + 40 + 6 - 123 = - 100 - 20 - 3 |
| 346 - 123 = 200 + 20 + 3 = 223 |
| 455 = 300 + 50 + 5 - 263 = - 200 - 60 - 3 |
| 455 - 263 = 100 + 90 + 2 = B2 |

a) 469 = ____________________
- B4 = ____________________
- 258 = ____________________
- 562 = ____________________

b) 562 = ____________________
- 258 = ____________________
- 372 = ____________________
- 645 = ____________________

c) 737 = ____________________
- 265 = ____________________

- 372 = ____________________

- 645 = ____________________
4. Write down what is shown on each number line.

Example:

a)

\[
\begin{array}{cccccccccc}
\hline
& & & & & & & & & & \\
0 & 1 & 2 & 3 & 4 & 5 & 6 & 7 & 8 & 9 & 10 \\
\hline
\end{array}
\]

Answer: 2 + 2 + 2 + 2 = 8 or 4 jumps of 2 = 8 or 4 twos = 8.

b)

\[
\begin{array}{cccccccccc}
\hline
& & & & & & & & & & \\
0 & 2 & 4 & 6 & 8 & 10 & 12 & 14 & 16 & 18 & 20 \\
\hline
\end{array}
\]

Answer: ___________________ _____________________________

5. Use repeated addition to find the value of

a) 6 eights

b) 5 nines

a) _________________________ ______________________________

b) _________________________ ______________________________

6. Use repeated addition to double each of the following numbers.

Example: Double 26 = 26 + 26

\[
\begin{align*}
&= 20 + 6 + 20 + 6 \\
&= 40 + 12 \\
&= 52
\end{align*}
\]

a) Double 18

b) Double 25

c) Double 34

d) Double 29

e) Double 37

\[
\begin{align*}
a) & \quad \text{Double 18} = \quad \quad \\
& \quad = \quad \quad \\
& \quad = \quad \quad \\
& \quad = \quad \quad \\
\end{align*}
\]

\[
\begin{align*}
b) & \quad \text{Double 25} = \quad \quad \\
& \quad = \quad \quad \\
& \quad = \quad \quad \\
& \quad = \quad \quad \\
\end{align*}
\]

\[
\begin{align*}
c) & \quad \text{Double 34} = \quad \quad \\
& \quad = \quad \quad \\
& \quad = \quad \quad \\
& \quad = \quad \quad \\
\end{align*}
\]

\[
\begin{align*}
d) & \quad \text{Double 29} = \quad \quad \\
& \quad = \quad \quad \\
& \quad = \quad \quad \\
& \quad = \quad \quad \\
\end{align*}
\]

\[
\begin{align*}
e) & \quad \text{Double 37} = \quad \quad \\
& \quad = \quad \quad \\
& \quad = \quad \quad \\
& \quad = \quad \quad \\
\end{align*}
\]
7. Complete: The first four multiples of
   a) 6 are 6, ____, ____, 24 by adding on sixes.
   b) 7 are 7, ____, ____, ____ by ______________________
   c) 9 are 9, ____, ____, ____ by ______________________

8. Complete: The multiples of
   a) 3 between 15 and 27 are _______, _______, _______
   b) 5 between 25 and 45 are _______, _______, _______
   c) 8 between 40 and 72 are _______, _______, _______

9. Write down the answers as quickly as you can.
   a) 2 × 2 = _____
      3 × 2 = _____
      4 × 2 = _____
      5 × 2 = _____
      6 × 2 = _____
   b) 2 × 3 = _____
      3 × 3 = _____
      4 × 3 = _____
      5 × 3 = _____
      6 × 3 = _____
   c) 2 × 4 = _____
      3 × 4 = _____
      4 × 4 = _____
      5 × 4 = _____
      6 × 4 = _____
   d) 2 × 5 = _____
      3 × 5 = _____
      4 × 5 = _____
      5 × 5 = _____
      6 × 5 = _____

Day 8.

1. Write down the answers as quickly as you can.
   a) 10 × 2 = _____
      9 × 2 = _____
      8 × 2 = _____
      7 × 2 = _____
   b) 10 × 3 = _____
      9 × 3 = _____
      8 × 3 = _____
      7 × 3 = _____
   c) 10 × 4 = _____
      9 × 4 = _____
      8 × 4 = _____
      7 × 4 = _____
   d) 10 × 5 = _____
      9 × 5 = _____
      8 × 5 = _____
      7 × 5 = _____
   e) 5 × 2 = _____
      5 × 4 = _____
      6 × 2 = _____
      6 × 4 = _____
   f) 7 × 2 = _____
      7 × 4 = _____
      8 × 2 = _____
      8 × 4 = _____
   g) 4 × 3 = _____
      8 × 3 = _____
      8 × 5 = _____
      6 × 5 = _____
   h) 3 × 4 = _____
      3 × 3 = _____
      2 × 2 = _____
      6 × 2 = _____
   i) 7 × 1 = _____
      8 × 2 = _____
      5 × 3 = _____
      6 × 5 = _____
   j) 4 × 4 = _____
      5 × 5 = _____
      3 × 3 = _____
      2 × 2 = _____
   k) 9 × 3 = _____
      7 × 3 = _____
      8 × 3 = _____
      6 × 2 = _____
   l) 10 × 2 = _____
      9 × 5 = _____
      8 × 3 = _____
      7 × 4 = _____
2. Complete:

<table>
<thead>
<tr>
<th></th>
<th>3 × D</th>
<th>4 × D</th>
<th>5 × D</th>
<th>6 × D</th>
</tr>
</thead>
<tbody>
<tr>
<td>a)</td>
<td>10</td>
<td>20</td>
<td>30</td>
<td>40</td>
</tr>
<tr>
<td>b)</td>
<td>10</td>
<td>20</td>
<td>30</td>
<td>40</td>
</tr>
</tbody>
</table>

3. Complete each flow-diagram.

<table>
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<tr>
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<th>Input</th>
<th>Rule</th>
<th>Output</th>
</tr>
</thead>
<tbody>
<tr>
<td>a)</td>
<td>4 →</td>
<td>×3</td>
<td>⎯</td>
</tr>
<tr>
<td></td>
<td>6 →</td>
<td>⎯</td>
<td>⎯</td>
</tr>
<tr>
<td></td>
<td>8 →</td>
<td>⎯</td>
<td>⎯</td>
</tr>
<tr>
<td>b)</td>
<td>3 →</td>
<td>×4</td>
<td>⎯</td>
</tr>
<tr>
<td></td>
<td>5 →</td>
<td>⎯</td>
<td>⎯</td>
</tr>
<tr>
<td></td>
<td>7 →</td>
<td>⎯</td>
<td>⎯</td>
</tr>
<tr>
<td>c)</td>
<td>3 →</td>
<td>×5</td>
<td>⎯</td>
</tr>
<tr>
<td></td>
<td>5 →</td>
<td>⎯</td>
<td>⎯</td>
</tr>
<tr>
<td></td>
<td>8 →</td>
<td>⎯</td>
<td>⎯</td>
</tr>
<tr>
<td>d)</td>
<td>2 →</td>
<td>×10</td>
<td>⎯</td>
</tr>
<tr>
<td></td>
<td>5 →</td>
<td>⎯</td>
<td>⎯</td>
</tr>
<tr>
<td></td>
<td>7 →</td>
<td>⎯</td>
<td>⎯</td>
</tr>
</tbody>
</table>

4. Complete each of the following multiplication grids.

What do you notice about the answers in row 2 and row 3?

<table>
<thead>
<tr>
<th></th>
<th>×1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8</th>
<th>9</th>
<th>D</th>
</tr>
</thead>
<tbody>
<tr>
<td>a)</td>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>4</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>b)</td>
<td>3</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>6</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Day 9.

1. Multiply by “breaking-down” the 2-digit number.

**Method 1**

<table>
<thead>
<tr>
<th>Example: 3 \times 24 = 3 \times (20 + 4)</th>
<th>a) 2 \times 43 =</th>
<th>b) 4 \times 16 =</th>
<th>c) 3 \times 28 =</th>
<th>d) 5 \times 19 =</th>
<th>e) 4 \times 23 =</th>
</tr>
</thead>
<tbody>
<tr>
<td>= 3 \times 20 + 3 \times 4</td>
<td></td>
<td>=</td>
<td></td>
<td>=</td>
<td></td>
</tr>
<tr>
<td>= 60 + 12</td>
<td>=</td>
<td>=</td>
<td>=</td>
<td>=</td>
<td>=</td>
</tr>
<tr>
<td>= 72</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Method 2.**

<table>
<thead>
<tr>
<th>Example: 3 \times 24</th>
<th>a) 4 \times 19</th>
<th>b) 5 \times 13</th>
<th>c) 3 \times 28</th>
</tr>
</thead>
<tbody>
<tr>
<td>Answer:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3 \times 4 = 12</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>and 3 \times 20 = 60</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>means 3 \times 24 = 72</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

2. Mark the shapes which have only straight edges with a “✓” and those with curved edges with a “✗”.

![Shapes](image)

3. a) How many sides does a rectangle have? ____________
   b) How many sides does a triangle have? ____________
   c) How many sides does a square have? ____________
4. Write “t” inside each triangle, “c” inside each circle and “r” inside each rectangle in the shapes below.

5.

Count and write down how many circles, triangles, rectangles and squares there are in the above picture.

a) The number of circles = ________

b) The number of triangles = _______

c) The number of rectangles = _____

d) The number of squares = _______

6. Draw a line of symmetry in each of the pictures.

a) b)

7. Draw the other part of each shape to make it symmetrical.

a) b)
**Day D.**

To answer question 1, 2 and 6 you must write down the letters which mark the objects or figures.

1. A  B  C  D
   a) Which of the above objects can roll? ________________________
   b) Which of the above objects can slide? ________________________
   c) Which of the above objects can slide and roll? _______________

2. A  B  C  D  E  F  G  H
   a) Which of the above objects have the same shape as a box? ___________
   b) Which of the above objects have the same shape as a ball? ___________

3. Draw a line between the picture of each article and its matching shape.
4. The above 3-D figures are all 3-D shapes.
Complete:

a) The 3-D shape marked (b) is called a ______________________________

b) The 3-D shape marked (d) is called a ______________________________

c) The 3-D shape marked (h) is called a ______________________________

d) The 3-D shape marked (i) is called a ______________________________

e) The 3-D shape marked (j) is called a ______________________________

5. Look at the figures in question 4 and then answer each of the questions.

a) Which figures have the same shape as the figure marked (c)? _________

b) In which way are the figures marked (d) and (j) alike?

________________________________ _____________________________

c) In which way is the figure marked (g) different from the figure marked (i)? _______________________ ________________________________

6. Which of the above 2-D shapes are used to make

a) a cube? _________________  b) a cylinder? _________________

c) a rectangular prism? ________  d) a square-based pyramid? ________