Day 1

1. Write down the number of stars shown in each frame.
   a) 
   b) 
   c) 

2.
   
   a) How many carrots are drawn in the top row of the frame? _____
   b) How many carrots are drawn in the 4 top rows? _______________
   c) How many carrots are drawn altogether in the frame? _________
   d) How many bunches of 10 carrots each can be made? _______________
   e) How many bunches of 5 carrots each can be made? _______________
   f) How many bunches of 2 carrots each can be made? _______________

3. Draw a circle around the number which matches the number of apples drawn in each frame.
   a) 16 17 18 19 20
   b) 16 17 18 19 20
   c) 16 17 18 19 20
4. Write the number name for each of the following number symbols.

16  _____________________ ________________________
25  _____________________ ________________________
39  _____________________ ________________________
58  _____________________ ________________________
67  _____________________ ________________________

5. Fill in the missing numbers in each of the following.

a) 17  19   22
b) 15 18  24  30  36
c) 40  48  56  64

d) Write down the next 3 numbers in each of the following sequences.

a) 46 ; 47 ; 48 ; ________________________________
b) 64 ; 66 ; 68 ; ________________________________
c) 70 ; 80 ; 90 ; ________________________________
d) 120 ; 125 ; 130 ; ________________________________
e) 132 ; 135 ; 138 ; ________________________________
f) 132 ; 136 ; 140 ; ________________________________

7. Fill in the missing numbers on each of the number lines.

a) 0        2         4        6         8        10             13        15             18       20
b) 25      27     30
c) 40      50     55    65
Day 2.

1. Write “is bigger than” or “is smaller than” between each of the numbers to make correct sentences.

   a) 27 ____________________ 72  
   b) 51 ____________________ 15  
   c) 43 ____________________ 34  
   d) 64 ____________________ 46  
   e) 61 ____________________ 16  
   f) 48 ____________________ 38  
   g) 29 ____________________ 49  
   h) 57 ____________________ 58  

2. Write the given numbers from the smallest to the greatest.

   a) 15 9 3 11 6 13  
      ____________________________ ________________________  

   b) 34 29 23 19 26 32  
      ____________________________ ________________________  

   c) 27 45 61 72 54 16  
      _____________________________________________________  

   d) 67 36 73 76 63  
      _____________________________________________________  

Page 3 of 21
3. Write the given numbers from the greatest to the smallest.
   
   a) \( 7 \ 37 \ 57 \ 27 \ 47 \ 67 \)  
   
   b) \( 36 \ 54 \ 63 \ 45 \ 46 \ 64 \)  
   
   c) \( 6 \ 11 \ 51 \ 41 \ 14 \ 61 \)  
   
   d) \( 20 \ 9 \ 39 \ 40 \ 49 \)  
   
   e) \( 33 \ 55 \ 22 \ 11 \ 66 \ 44 \)  

4. In the number
   
   a) \( 18 \), the value of digit 8 is _____ and the value of digit 1 is _____.  
   
   b) \( 81 \), the value of digit 1 is _____ and the value of digit 8 is ____.  
   
   c) \( 27 \), the value of digit 7 is _____ and the value of digit 2 is _____.  
   
   d) \( 72 \), the value of digit 2 is _____ and the value of digit 7 is ____.  
   
   e) \( 45 \), the value of digit 5 is _____ and the value of digit 4 is _____.  
   
   f) \( 54 \), the value of digit 4 is _____ and the value of digit 5 is ____.  
   
   g) \( 63 \), the value of digit 3 is _____ and the value of digit 6 is ____.  
   
   h) \( 36 \), the value of digit 6 is _____ and the value of digit 3 is _____.  

5. Write each of the given two-digit numbers in expanded form.

   Example: a) \( 39 = 30 + 9 = 3 \text{ tens} + 9 \text{ units} \)

   b) \( 17 = \) _____________________________

   c) \( 26 = \) _____________________________

   d) \( 62 = \) _____________________________
e) 43 = ______________________________________

f) 34 = ______________________________________

g) 57 = ______________________________________

h) 75 = ______________________________________

Day 3.

1. Fill in the answers in each column as quickly as you can.

a) 1 + 1 = _____
   21 + 1 = _____
   2 + 2 = _____
   32 + 2 = _____
   3 + 2 = _____
   43 + 2 = _____

b) 4 + 3 = _____
   34 + 3 = _____
   5 + 3 = _____
   45 + 3 = _____
   6 + 3 = _____
   56 + 3 = _____

c) 7 + 2 = _____
   27 + 2 = _____
   8 + 2 = _____
   38 + 2 = _____
   9 + 1 = _____
   69 + 1 = _____

d) 23 + 5 = _____
   31 + 7 = _____
   45 + 4 = _____
   52 + 6 = _____
   61 + 3 = _____
   62 + 8 = _____

e) 5 - 4 = _____
   15 - 4 = _____
   6 - 5 = _____
   26 - 5 = _____
   7 - 3 = _____
   37 - 3 = _____

f) 7 - 3 = _____
   37 - 3 = _____
   8 - 6 = _____
   48 - 6 = _____
   9 - 4 = _____
   29 - 4 = _____

g) 4 - 1 = _____
   54 - 1 = _____
   9 - 4 = _____
   57 - 5 = _____

h) 36 - 4 = _____

2. Write down the number that is 1 more than:

a) 16 b) 28 c) 42 d) 53

----- ----- ----- ----- ----- ----- ----

3. Write down the number that is 2 more than:

a) 15 b) 28 c) 47 d) 58

----- ----- ----- ----- ----- ----- ----

4. Write down the number that is 2 less than:

a) 37 b) 41 c) 57 d) 72

----- ----- ----- ----- ----- ----- ----
5. Write down the number that is 3 less than
   a) 35       b) 48       c) 62       d) 71
   _______     _______     _______     _______  

6. Write down the number that is 4 more than
   a) 26       b) 37       c) 48       d) 69
   _______     _______     _______     _______  

7. Write down the number that is 4 less than
   a) 15       b) 22       c) 51       d) 73
   _______     _______     _______     _______  

Day 4.

1. Complete:
   a) 10 + 10 = _____  
      30 + 10 = _____  
      40 + 10 = _____  
      50 + 10 = _____  

   b) 20 + 20 = ___  
      30 + 20 = ___  
      40 + 20 = ___  
      50 + 20 = ___  

   c) 40 - 10 = ____  
      50 - 10 = ____  
      60 - 10 = ____  
      70 - 10 = ____  

   d) 30 - 20 = ___  
      40 - 20 = ___  
      50 - 30 = ___  
      70 - 40 = ___  

   e) 20 + 6 = ____  
      20 + 16 = ____  
      20 + 26 = ___  

   f) 30 + 7 = ____  
      30 + 27 = ___  
      30 + 37 = ___  

   g) 40 + 8 = ____  
      40 + 18 = ____  
      40 + 38 = ___  

   h) 50 + 4 = ____  
      50 + 14 = ____  
      50 + 24 = ___  

2. Write down each answer as quickly as you can.
   a) 4 more than 46 is __________ 
   b) 5 more than 25 is __________ 
   c) 2 more than 58 is __________ 
   d) 7 more than 33 is __________ 
   e) 3 more than 67 is __________ 
   f) 6 more than 44 is __________ 
   g) 8 more than 32 is __________ 
   h) 9 more than 61 is __________
3. Add by “building-up” tens.

Example: a) \(56 + 7 = 56 + 4 + 3 = 60 + 3 = 63\)

b) \(27 + 8\)
   \[= 27 + 3 + \_\]
   \[= \_\]
   \[= \_\]

f) \(16 + 6\)
   \[= \_\]
   \[= \_\]
   \[= \_\]

g) \(24 + 7\)
   \[= \_\]
   \[= \_\]
   \[= \_\]

4. Complete: The number which is

a) 3 more than 14 is \_\_

b) 5 more than 24 is \_\_

c) 6 more than 32 is \_\_

d) 7 more than 40 is \_\_

e) 3 more than 18 is \_\_

f) 5 more than 29 is \_\_

g) 6 more than 37 is \_\_

h) 7 more than 58 is \_\_

i) 8 more than 65 is \_\_

j) 9 more than 66 is \_\_

5. Add by “building-up” tens.

Example: a) \(47 + 28\) or \(47 + 28\)

\[= 47 + 3 + 25\]
\[= 50 + 25\]
\[= 75\]

b) \(28 + 27\)
   \[= \_\]
   \[= \_\]
   \[= \_\]

c) \(34 + 1\)
   \[= \_\]
   \[= \_\]
   \[= \_\]

d) \(45 + 1\)
   \[= \_\]
   \[= \_\]
   \[= \_\]

e) \(53 + 1\)
   \[= \_\]
   \[= \_\]
   \[= \_\]
Day 5.

1. Add by “breaking-down” both numbers.

<table>
<thead>
<tr>
<th>Example</th>
<th>a) $26 + 43$</th>
<th>b) $48 + 9$</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>$20 + 6 + 40 + 3$</td>
<td>$= \phantom{0} \phantom{0}$</td>
</tr>
<tr>
<td></td>
<td>$20 + 40 + 6 + 3$</td>
<td>$= \phantom{0} \phantom{0}$</td>
</tr>
<tr>
<td></td>
<td>$60 + 9$</td>
<td>$= \phantom{0} \phantom{0}$</td>
</tr>
<tr>
<td></td>
<td>$69$</td>
<td>$= \phantom{0} \phantom{0}$</td>
</tr>
</tbody>
</table>

2. Add by “breaking-up” both numbers.

<table>
<thead>
<tr>
<th>Example</th>
<th>$26 + 43$</th>
<th>The calculation is the same as in question 1, but is written in a different way.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Answer</td>
<td>$6 + 3 = 9$</td>
<td>and $20 + 40 = 60$</td>
</tr>
<tr>
<td></td>
<td>$26 + 43 = 69$</td>
<td>means $26 + 43 = 69$</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>b) $34 + 25$</th>
<th>c) $49 + 17$</th>
</tr>
</thead>
<tbody>
<tr>
<td>$4 + 5$ = $\phantom{0} \phantom{0}$</td>
<td>$9 + 7 = \phantom{0} \phantom{0}$</td>
</tr>
<tr>
<td>and $30 + 20$ = $\phantom{0} \phantom{0}$</td>
<td>and $40 + 10$ = $\phantom{0} \phantom{0}$</td>
</tr>
<tr>
<td>$\phantom{0} \phantom{0}$ = $\phantom{0} \phantom{0}$</td>
<td>$\phantom{0} \phantom{0}$ = $\phantom{0} \phantom{0}$</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>d) $28 + 43$</th>
<th>e) $36 + 35$</th>
</tr>
</thead>
<tbody>
<tr>
<td>$\phantom{0} \phantom{0}$ = $\phantom{0} \phantom{0}$</td>
<td>$\phantom{0} \phantom{0}$ = $\phantom{0} \phantom{0}$</td>
</tr>
<tr>
<td>$\phantom{0} \phantom{0}$ = $\phantom{0} \phantom{0}$</td>
<td>$\phantom{0} \phantom{0}$ = $\phantom{0} \phantom{0}$</td>
</tr>
</tbody>
</table>
3. Use any method of your choice to calculate the answers.

a) $19 + 18$

b) $27 + 36$

c) $48 + 27$

d) $52 + 7$

e) $35 + 29$

f) $39 + 34$

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

a) $25 ; 24 ; 23 ; ________________________________$

b) $38 ; 36 ; 34 ; ________________________________$

c) $60 ; 60 ; 40 ; ________________________________$

d) $60 ; 55 ; 50 ; ________________________________$

e) $60 ; 66 ; 52 ; ________________________________$

f) $44 ; 41 ; 38 ; ________________________________$

g) $44 ; 40 ; 36 ; ________________________________$

h) $20 ; 15 ; 10 ; ________________________________$

i) $20 ; 17 ; 14 ; ________________________________$

j) $20 ; 16 ; 12 ; ________________________________
5. Use the above number line, if necessary, and count backwards to do the following subtraction sums.

   a) 6 - 2 = ____
   b) 5 - 4 = ____
   c) 6 - 6 = ____
   d) 11 - 1 = ____
   e) 15 - 4 = ____
   f) 11 - 2 = ____
   g) 11 - 3 = ____
   h) 11 - 4 = ____
   i) 9 - 4 = ____
   j) 20 - 1 = ____
   k) 9 - 1 = ____
   l) 8 - 9 = ____

Day 6.

1. Complete:

   a) 40 - 6 = ____
   b) 20 - 8 = ____
   c) 30 - 7 = ____
   d) 22 - 7 = ____
   e) 33 - 5 = ____
   f) 26 - 8 = ____
   g) 37 - 9 = ____
   h) 41 - 9 = ____
   i) 53 - 5 = ____
   j) 46 - 8 = ____
   k) 52 - 9 = ____
   l) 61 - 9 = ____
2. Subtract by “breaking-down” the smaller number and subtracting each part.

**Example:**

<table>
<thead>
<tr>
<th></th>
<th>a) 47 - 15</th>
<th>b) 56 - 34 or 56 - 34</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>47 - 10 - 5</td>
<td>56 - 30 - 4 = 56 - 4 - 30</td>
</tr>
<tr>
<td></td>
<td>37 - 5</td>
<td>26 - 4 = 52 - 30</td>
</tr>
<tr>
<td></td>
<td>32</td>
<td>22 = 22</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>c) 38 - 26</th>
<th>d) 59 - 37</th>
<th>e) 67 - 45</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>38 - 26</td>
<td>59 - 37</td>
<td>67 - 45</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>f) 47 - 24</th>
<th>g) 66 - 35</th>
<th>h) 45 - 32</th>
</tr>
</thead>
</table>

3. Fill in the missing numbers.

a) To subtract 13 we can subtract 10 and then 3 or subtract 3 and then 10 because 13 = 10 + 3.

b) To subtract 25 we can subtract ____ and then ____ or subtract ____ and then ____ because 25 = 20 + _____.

c) __ - 34 = __ - 30 - ______ because 34 = 30 + ______.

d) __ - 47 = __ - ______ - ______ because 47 = 40 + ______.
4. “Break-down” both numbers and subtract the units from one another and the tens from one another.

Example: a) 59 - 37

\[= 50 + 9 - 30 - 7\]
\[= 50 - 30 + 9 - 7\]
\[= 20 + 2\]
\[= 22\]

b) 48 - 16
c) 57 - 25
d) 69 - 38

Day 7.

1. Fill in the missing numbers in each of the following.

a) \[22 = 20 + _____\] or \[10 + _____\]
b) \[25 = 20 + _____\] or \[10 + _____\]
c) \[27 = 20 + _____\] or \[10 + _____\]
d) \[28 = 20 + _____\] or \[10 + _____\]
e) \[33 = 30 + _____\] or \[20 + _____\]
f) \[36 = 30 + _____\] or \[20 + _____\]
g) \[44 = 40 + _____\] or \[30 + _____\]
h) \[49 = 40 + _____\] or \[30 + _____\]
i) \[55 = 50 + _____\] or \[40 + _____\]
j) \[58 = 50 + _____\] or \[40 + _____\]
k) \[67 = 60 + _____\] or \[50 + _____\]
l) \[72 = 70 + _____\] or \[60 + _____\]

2. “Break-down” both numbers to calculate.

Example: a) 43 - 16

Answer: 43 - 16

[Remember 43 = 40 + 3 or 30 + B]

\[= 30 + B - D - 6\]
\[= 30 - D + B - 6\]
\[= 20 + 7\]
\[= 27\]

Why will we use 30 + B rather than 40 + 3?]

Page 12 of 21
b) $34 - B$

c) $46 - D$

d) $52 - D$

e) $41 - D$

f) $67 - 28$

g) $75 - 38$

h) $55 - 38$

i) $63 - 29$

j) $78 - 39$

3. Complete:

a) $27 + 6$

   $= 20 + 7 + D + 6$ or $7 + 6 = B$

   $= 30 + B$

   $= 43$

   $= 27 + B = 43$

b) $19 - 13 = 6$ means that $6 + 13 = 20$.

This tells us that we can check our answer in a subtraction sum by doing an addition sum.

4. Check the answers in question 2(a) - 2(j) by doing an addition sum.

Example: a) $27 + 6$

   $= 20 + 7 + D + 6$ or $7 + 6 = B$

   $= 30 + B$

   $= 43$
Day 8.

1. Write down what is shown on each number line.

Example:

a)  

```
|   |   |   |   |   |   |   |   |
0  1   2    3      4       5  6   7     8      9       10
```

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

b)  

```
|   |   |   |   |   |   |   |   |
0  1   2    3      4       5  6   7     8      9       10
```

Answer: _____________________ ___________________________
2. Write down what is shown on each number line.

a) Answer: _____________________ ___________________________

b) Answer: _____________________ ___________________________

c) Answer: _____________________ ___________________________

2. Write down what is shown on each number line.
3. Complete each repeated addition sum.

Example: a) \(2 + 2 + 2 = 6\) which means \(3 \times 2 = 6\)

b) \(2 + 2 + 2 + 2\) = ______ which means _____ \(\times\) _____ = ______

c) \(5 + 5 + 5\) = ______ which means _____ \(\times\) _____ = ______

d) \(4 + 4 + 4\) = ______ which means _____ \(\times\) _____ = ______

e) \(5 + 5 + 5 + 5\) = ______ which means _____ \(\times\) _____ = ______

f) \(2 + 2 + 2 + 2 + 2\) = ______ which means _____ \(\times\) _____ = ______

4. Do repeated addition to calculate each answer.

Example: a) \(6 \times 4 = 4 + 4 + 4 + 4 + 4 + 4 = 24\)

b) \(7 \times 2\) = __________________ ___________________ = ______

c) \(5 \times 4\) = __________________ ___________________ = ______

d) \(6 \times 5\) = __________________ ___________________ = ______

e) \(8 \times 2\) = __________________ ___________________ = ______
5. Write the missing words and numbers in each of the following.

Example: a) 2 fours = 2 times 4 = 2 × 4 = 8

b) 2 twos = __________________ = _____________ = ______

c) 2 fives = __________________ = _____________ = ______

d) 3 twos = __________________ = _____________ = ______

e) 3 fours = __________________ = _____________ = ______

f) 3 fives = __________________ = _____________ = ______

6. Double each of the given numbers by writing an addition number sentence.

Example: a) Double 12 = 10 + 2 + 10 + 2 = 20 + 4 = 24

b) Double 14 = 10 + _____ + ______ + _____ = _______ = _______

c) Double 23 = 20 + _____ + ______ + _____ = _______ = _______

d) Double 32 = 30 + _____ + ______ + _____ = _______ = _______

e) Double 17 = _________________________________________

f) Double 29 = __________ _________________________________

g) Double 36 = __________ _________________________________

Day 9.

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

[Diagram of shapes: rectangle, oval, triangle, square, circle, line segment, triangle, circle]
2. a) How many sides does a rectangle have? ____________
   b) How many sides does a triangle have? ____________
   c) How many sides does a square have? ____________

3. Write “t” inside each triangle, “c” inside each circle and “r” inside each rectangle in the shapes below.

![Shapes with t, c, and r](image)

4. Draw the next 2 shapes in each of the “repeating” patterns of shapes.
   a) 
   b) 

5. Draw the next shape in each of the “growing” patterns of shapes.
   a) 
   b) 

6. Draw a line of symmetry in each shape.
   a) 
   b) 
   c)
7. Draw a line of symmetry in each of the pictures.
   a) b)

8. Draw the other part of each shape to make it symmetrical.
   a) b)

Day 10.

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

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. Examine a box of chalk, like the one in the picture and then answer the questions.

   a) What is the shape of the bottom of the box of chalk? ____________________________________________________________

   b) What is the shape of the front of the box? ____________________________________________________________

   c) Does the box have straight or round edges?
   ____________________________________________________________

   d) How many 2-D shapes are used to make the box? __________

   e) Are the 2-D shapes which form the faces of the box the same size or not? ____________________________________________________________
4. Examine a tin of jam like the one in the picture and then answer the questions.

   a) What is the shape of the top and the bottom of the tin? _______________________________

   b) Which shape is used to make the side of the tin? _______________________________

   c) What is the 3-D shape called? _______________

5. Draw a line between the picture of each article and its matching shape.

   a) In which way are figures A and B the same? ________________________________________

   b) In which way are figures A and B different? ________________________________________

   c) In which way are figures C and D the same? ________________________________________

   d) In which way are figures C and D different? ________________________________________