Chapter 4: Making 10

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Exercise 4.1 — Let us Do — Making 10 with Beads and Ten Frames

Q1 Count the beads already on the string and draw more beads to make a string of 10 beads. (i) Some beads are shown. (ii) Some beads are shown. (iii) Some beads are shown. (iv) Some beads are shown.

SOLUTION

Count beads already on the string, then draw more to reach 10. From the figure: (i) 5 beads shown — draw 5 more; (ii) 7 beads shown — draw 3 more; (iii) 6 beads shown — draw 4 more; (iv) 3 beads shown — draw 7 more.

Q2 Draw buttons to fill the ten frame completely. (i) Some buttons are shown in the ten frame. (ii) Some buttons are shown. (iii) Some buttons are shown. (iv) Some buttons are shown.

SOLUTION

A ten-frame has 10 boxes (2 rows of 5). Count buttons already drawn, then draw more to fill all 10 boxes. From the figure: (i) 3 buttons shown — draw 7 more; (ii) 6 buttons shown — draw 4 more; (iii) 2 buttons shown — draw 8 more; (iv) 1 button shown — draw 9 more.

Exercise 4.2 — The Handy Five — Number Pairs of 5

Q1 Follow the pattern and write the number pairs separated by the stick that make 5. The first pair is given: 1 and 4. Write the next pairs.

SOLUTION

A stick divides fingers into two groups. Both groups together always make 5.

1 and 4 (1 + 4 = 5)

2 and 3 (2 + 3 = 5)

3 and 2 (3 + 2 = 5)

4 and 1 (4 + 1 = 5)

5 and 0 (5 + 0 = 5)

Exercise 4.3 — Number Pairs of 10

Q1 Follow the pattern and write the number pairs of fingers that make 10. Fill in the table. The first pair is given: 1 and 9.

SOLUTION

Show some fingers on both hands. Both hands together have 10 fingers.

0 and 10 (0 + 10 = 10)
1 and 9 (1 + 9 = 10)
2 and 8 (2 + 8 = 10)
3 and 7 (3 + 7 = 10)
4 and 6 (4 + 6 = 10)
5 and 5 (5 + 5 = 10)
6 and 4 (6 + 4 = 10)
7 and 3 (7 + 3 = 10)
8 and 2 (8 + 2 = 10)
9 and 1 (9 + 1 = 10)
10 and 0 (10 + 0 = 10)

Exercise 4.4 — Counting up to 20

Q1 Complete the pattern: 10 and ___ is ___. Fill in the blanks for numbers 11 to 20.

SOLUTION

A full box of 10 oranges plus extra oranges gives numbers beyond 10.

10 and 1 is 11 (Eleven)
10 and 2 is 12 (Twelve)
10 and 3 is 13 (Thirteen)
10 and 4 is 14 (Fourteen)
10 and 5 is 15 (Fifteen)
10 and 6 is 16 (Sixteen)
10 and 7 is 17 (Seventeen)
10 and 8 is 18 (Eighteen)
10 and 9 is 19 (Nineteen)
10 and 10 is 20 (Twenty)

Q2 Write the numbers 11 to 20 in order.

SOLUTION

11, 12, 13, 14, 15, 16, 17, 18, 19, 20

Exercise 4.5 — Count and Write

Q1 Count the objects in each picture and write the number.

SOLUTION

Count every object carefully and write the number. From the figure: (i) Sticks — 1 tied bundle of sticks beside 9 loose sticks = 10 sticks in all. Write 10. (ii) Leaves on the branch — count each leaf = 13 leaves. Write 13.

Q2 Colour the tens frames to show the given numbers: 14, 19, 16.

SOLUTION

A tens frame has 2 rows of 5 boxes (10 boxes total). To show a number greater than 10, use a full tens frame (all 10 coloured) plus extra boxes in a second frame.
14: Colour all 10 boxes in the first frame, then colour 4 boxes in the second frame.
19: Colour all 10 boxes in the first frame, then colour 9 boxes in the second frame.
16: Colour all 10 boxes in the first frame, then colour 6 boxes in the second frame.

Q3 Write down the numbers in sequence (fill in the missing numbers).

SOLUTION

Numbers go up by 1 each time.
Row 1: 1, 2, 3, 4, 5, 6, 7, 8, 9
Row 2: 3, (missing numbers fill consecutively), 6, ..., 15
Row 3: 12, ..., 20

Q4 Encircle a group of ten in the pictures and match with the number: 17, 16, 20, 10.

SOLUTION

Circle exactly 10 objects in each picture, then count what is left. Match to the number on the right. From the figure: Row 1 — flowers (circle 10, 7 remain) = 17, matches 17. Row 2 — coloured beads on a caterpillar string = 16, matches 16. Row 3 — oval seeds (circle 10, 10 remain) = 20, matches 20. Row 4 — leaves on twig = 10, matches 10.

Q5 A group of friends built some towers using blocks. (i) Tick the tallest tower. (ii) Which tower used the most number of blocks? Write the number. (iii) Which tower used the least number of blocks? Write the number.

SOLUTION

Count the blocks in each tower. From the figure: Tower 1 (blue/coloured, leftmost, tallest) has 6 blocks; Tower 2 has 5 blocks; Tower 3 has 4 blocks; Tower 4 (rightmost) has 3 blocks. (i) Tick the tallest tower — tick Tower 1 (the tallest, on the left). (ii) Most blocks = Tower 1, write 6. (iii)

Least blocks = Tower 4 (rightmost), write 3.

Exercise 4.6 — Let us Do — Comparing Numbers up to 20

Q1 Circle the smallest number. (i) 8, 12, 6 (ii) 14, 11, 19

SOLUTION

(i) Compare 8, 12, 6. 6 is less than 8, and 8 is less than 12. So 6 is the smallest.
(ii) Compare 14, 11, 19. 11 is less than 14, and 14 is less than 19. So 11 is the smallest.
(i) 6 (ii) 11

Q2 Circle the biggest number. (i) 16, 19, 11 (ii) 11, 17, 9

SOLUTION

(i) Compare 16, 19, 11. 19 is more than 16, and 16 is more than 11. So 19 is the biggest.
(ii) Compare 11, 17, 9. 17 is more than 11, and 11 is more than 9. So 17 is the biggest.
(i) 19 (ii) 17

Q3 Find the numbers hidden under the paw (fill in the missing numbers in each sequence). (i) ___, 15, 16, ___ (ii) ___, 12, ___, 14, 15 (iii) 15, ___, ___ (iv) 13, ___, 15, ___, 18
(picture-dependent layout for part iv)

SOLUTION

Numbers go up by 1 each time. Find what is hidden under each paw. From the figure: (i) ___, 15, 16, ___, 18 — hidden numbers are 14 and 17. (ii) ___, 12, ___, 14, 15 — hidden numbers are 11 and 13. (iii) 15, ___, ___, 19 — hidden numbers are 16, 17 (and 18 if four blanks; sequence is 15, 16, 17, 18, 19). (iv) 13, ___, 15, ___ — hidden numbers are 14 and 16.

Q4 Write the numbers from the biggest to the smallest: 11, 3, 16, 20, 13, 9.

SOLUTION

Arrange from biggest to smallest: pick the largest first, then the next largest, and so on.
20 > 16 > 13 > 11 > 9 > 3
20, 16, 13, 11, 9, 3

Q5 Count and write. (i) Number of blocks shown. (ii) Number of white dots shown.

SOLUTION

Count each object carefully. From the figure: (i) Blue 3D blocks arranged in rows = 12 blocks. Write 12. (ii) White dots arranged in a ring on the kite = 8 white dots. Write 8.

Q6 Join the numbers from 1 to 20 in order (dot-to-dot picture).

SOLUTION

Start at 1. Draw a line to 2, then to 3, and keep going in order up to 20.
Following the order 1 → 2 → 3 → ... → 20 will complete the dot-to-dot picture.