PA4-1: Counting

Helen finds the **difference** between 15 and 12 by counting on her fingers. She says "12" with her fist closed, then counts to 15, raising one finger at a time.

| 12 | 13 | 14 | 15 |

When she says "15", she has raised 3 fingers. So the difference or "gap" between 12 and 15 is 3.

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1. Find the difference between the numbers by counting up. Write your answer in the circle.
    (If you know your subtraction facts, you may find the answer without counting.)

a) 2 ◯ 5   b) 3 ◯ 8   c) 6 ◯ 8   d) 4 ◯ 9

e) 12 ◯ 16   f) 13 ◯ 17   g) 21 ◯ 26   h) 37 ◯ 39

i) 26 ◯ 29   j) 32 ◯ 37   k) 24 ◯ 29   l) 44 ◯ 47

m) 51 ◯ 55   n) 46 ◯ 49   o) 28 ◯ 32   p) 34 ◯ 39

q) 89 ◯ 91   r) 62 ◯ 71   s) 87 ◯ 89   t) 59 ◯ 63

BONUS:

u) 96 ◯ 101   v) 79 ◯ 83   w) 98 ◯ 104   x) 117 ◯ 122

y) 219 ◯ 223   z) 146 ◯ 151   aa) 99 ◯ 108   bb) 99 ◯ 107
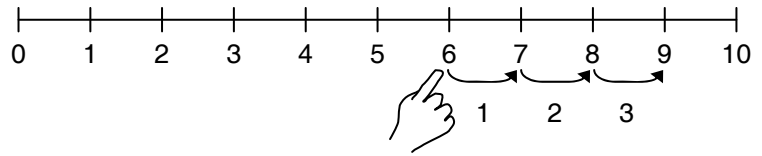
TEACHER:
To help your students recognize the gap between numbers, give your students daily practice with the mental math exercises provided in the Teacher's Guide.
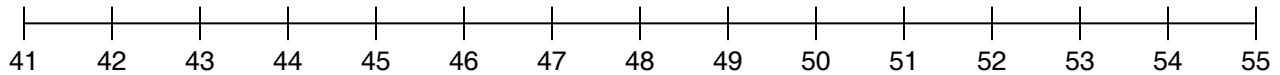
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MULTIPLYING POTENTIAL.

Patterns & Algebra 1

PA4-1: Counting *(continued)*

What number added to 6 gives 9? $6 + \boxed{?} = 9$

Anne counts 3 spaces between 6 and 9 on a number line:

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

so: $6 + \boxed{3} = 9$

and: 9 is 3 **more than** 6

and: 3 is called the **difference** between 9 and 6

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2. Use the number line (or count up) to find the <u>difference</u> between the numbers.

```
+---+---+---+---+---+---+---+---+---+---+---+---+---+---+
41  42  43  44  45  46  47  48  49  50  51  52  53  54  55
```

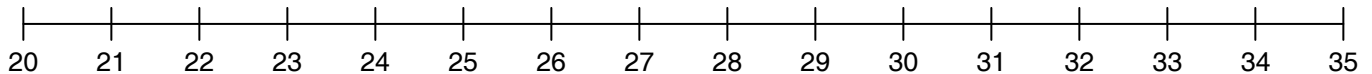a) 42 ◯ 45   b) 43 ◯ 47   c) 51 ◯ 54   d) 44 ◯ 51

e) 42 ◯ 44   f) 49 ◯ 53   g) 47 ◯ 48   h) 45 ◯ 49

3. Use the number line (or count up) to find the <u>difference</u> between the numbers.

```
+---+---+---+---+---+---+---+---+---+---+---+---+---+---+---+
20  21  22  23  24  25  26  27  28  29  30  31  32  33  34  35
```

a) $23 + \boxed{2} = 25$ b) $22 + \boxed{} = 26$ c) $24 + \boxed{} = 27$

d) $\boxed{} + 22 = 24$ e) $23 + \boxed{} = 30$ f) $\boxed{} + 28 = 31$

BONUS:
4. Fill in the missing number.

a) 25 is _____ more than 23   b) 30 is _____ more than 27   c) 53 is _____ more than 46

d) 32 is _____ more than 29   e) 28 is _____ more than 25   f) 26 is _____ more than 25

g) 50 is _____ more than 49   h) 47 is _____ more than 43   i) 53 is _____ more than 48

Patterns & Algebra 1