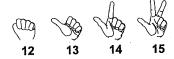
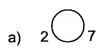
Jamie finds the **difference** between 15 and 12 by counting on her fingers. She says "12" with her fist closed, then counts to 15, raising one finger at a time:



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

Count the gap between the numbers. Write your answer in the circle:
 HINT: If you know your subtraction facts, you may be able to find the answer without counting.





$$_{\rm n)} 85 _{\rm 91}$$

What number is 4 $\underline{\text{more}}$ than 16? (Or: 16 + 4 = ?)

Ravi finds the answer by counting on his fingers. He says 16 with his fist closed, then counts up from 16 until he has raised 4 fingers:





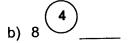


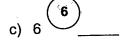


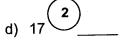
The number 20 is 4 more than 16.

2. Add the number in the circle to the number beside it. Write your answer in the blank:

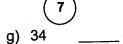
a) 5 3 8

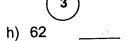






9) (







i)

3. Fill in the missing numbers:

a) ____ is 5 more than 6

b) ____ is 7 more than 26

c) ____ is 8 more than 17

d) ____ is 5 more than 29

e) _____ is 4 more than 38

f) ____ is 9 more than 65

PA5-2: Increasing Sequences

In an increasing sequence, each number is greater than the one before it.

Deborah wants to continue the number pattern:

She finds the **difference** between the first two numbers:







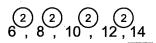
② 6 , 8 , 10 , 12 , <u>?</u>

6,8,10,12,?

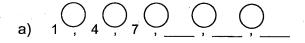
She finds that the difference between the other numbers in the pattern is also 2, so the pattern was made by adding 2: ② ② ② 6 , 8 , 10 , 12 , <u>?</u>

To continue the pattern, Deborah adds 2 to the last number in the sequence.

So the final number in the pattern is 14:



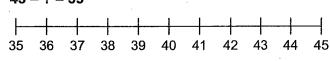
1. Extend the following patterns by first finding the gap between the numbers.





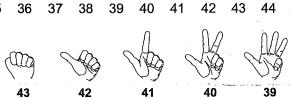


What number must you subtract from 43 to get 39?



Jess finds the answer by counting backwards on her fingers. She uses the number line to help:

When Jess says 39, she has raised four fingers, so 4 subtracted from 43 gives 39: 43 - 4 = 39

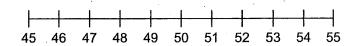


1. What number must you subtract from the greater number to get the lesser number?

- a) 43 (-3) 40
- b) 44 39
- $\frac{1}{c}$ 41 $\frac{1}{36}$
- d) 42 35

- e) 44 37
- f) 39 36
- g) 42 37
- h) 45 39

2. Find the gap between the numbers by counting backwards on your fingers.



- a) 52 (-4) 48
- b) 51 49
- c) 52 47
- d) .54 47

- e) 51 47
- f) 50 46
- g) 52 45
- h) 53 45

3. Find the gap between the numbers by counting backwards on your fingers (or by using your subtraction facts):

- a) 87 82
- b) 68 59
- c) 40 38
- d) 90 88

- e) 51 46
- f) 77 73
- g) 55 (5)
- h) 22 16

- i) 78 ₆₉
- j) 121 116
- k) 102 96
- 1) 49 39

PA5-4: Decreasing Sequences

In a decreasing sequence, each number is less than the one before it.

What number is 3 less than 9?

$$(Or: 9 - 3 = ?)$$

Jenna finds the answer by counting on her fingers. She says 9 with her fist closed and counts backwards until she has raised 3 fingers:









The number 6 is 3 less than 9:

$$9 - 3 = 6$$

1. Follow the directions to the circle from the number given. Write your answer in the blank:







2. Fill in the missing numbers:

a) ____ is 5 less than 17

b) ____ is 3 less than 19

c) ____ is 2 less than 18

d) ____ is 6 less than 26

e) ____ is 8 less than 20

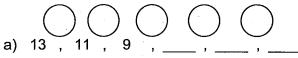
f) ____ is 4 less than 29

g) ____ is 7 less than 35

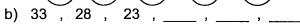
h) ____ is 9 less than 42

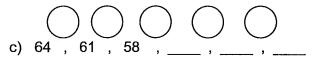
i) ____ is 8 less than 90

3. Extend the following <u>decreasing</u> patterns by first finding the gap between the numbers.





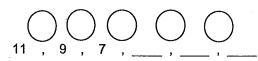








Example:



 $\frac{\text{Step 1}}{11} \cdot \frac{-2}{9} \cdot \frac{-2}{7} \cdot \frac{-2}{7} \cdot \frac{-2}{7} \cdot \frac{-2}{7}$

Step 2: 0.5 = 0.5 0.5 0.5 = 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.