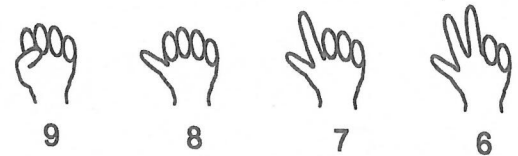


PA4-5: Decreasing Sequences

In a decreasing sequence, each number is one less than the one before it.
 What number is 3 less than 9? (Or: What is $9 - 3$?)

Keitha 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.

1. Subtract the number in the circle from the number beside it. Write your answer in the blank.

- a) 3 (-2) _____ b) 12 (-3) _____ c) 8 (-4) _____ d) 9 (-1) _____
 e) 8 (-5) _____ f) 10 (-4) _____ g) 5 (-1) _____ h) 9 (-2) _____

BONUS:

- i) 28 (-4) _____ j) 35 (-6) _____ k) 57 (-8) _____ l) 62 (-4) _____

2. Fill in the missing numbers.

- a) _____ is 4 less than 7 b) _____ is 2 less than 9 c) _____ is 3 less than 8
 d) _____ is 5 less than 17 e) _____ is 4 less than 20 f) _____ is 6 less than 25
 g) _____ is 7 less than 28 h) _____ is 4 less than 32 i) _____ is 5 less than 40

3. Extend the following decreasing patterns.

Example: \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc
 11 , 9 , 7 , _____ , _____ , _____

Step 1: (-2) (-2) (-2) (-2) (-2)
 11 , 9 , 7 , _____ , _____ , _____

Step 2: (-2) (-2) (-2) (-2) (-2)
 11 , 9 , 7 , 5 , 3 , 1

a) 10 \bigcirc , 9 \bigcirc , 8 \bigcirc , _____ , _____ , _____

b) 14 \bigcirc , 12 \bigcirc , 10 \bigcirc , _____ , _____ , _____

c) 23 \bigcirc , 22 \bigcirc , 21 \bigcirc , _____ , _____ , _____

d) 24 \bigcirc , 21 \bigcirc , 18 \bigcirc , _____ , _____ , _____

e) 90 \bigcirc , 80 \bigcirc , 70 \bigcirc , _____ , _____ , _____

f) 45 \bigcirc , 40 \bigcirc , 35 \bigcirc , _____ , _____ , _____