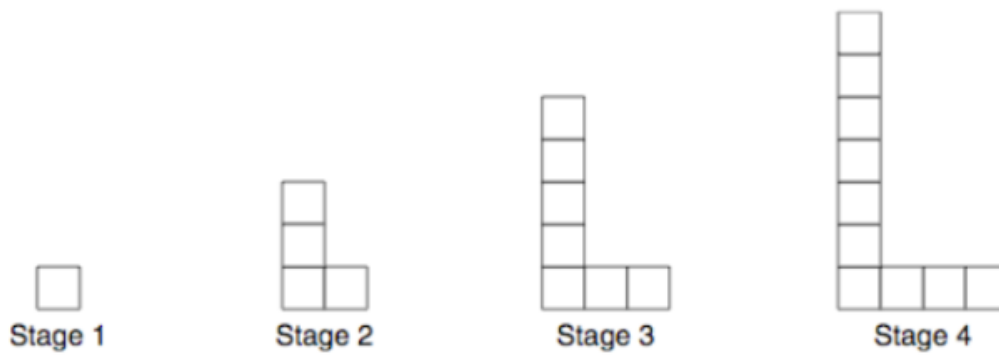**9** Ms. Lewis has 50 blocks. She uses 22 of these blocks to make the pattern shown below.
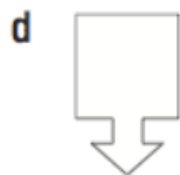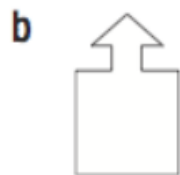

| Stage 1 | Stage 2 | Stage 3 | Stage 4 |

How many stages will Ms. Lewis be able to complete with the 50 blocks?

Justify your answer.

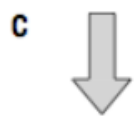**20** The 4 arrows below repeat in this order to make a pattern.
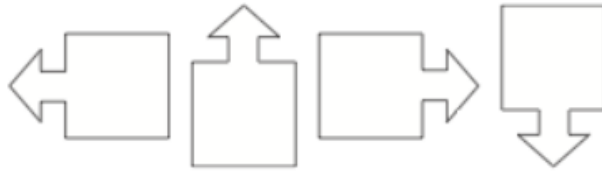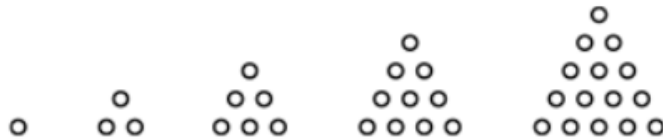
Which arrow is the 74th term?

a

b

c

d

24 A repeating pattern is shown below.

↑ ⇒ ↓ ⇐ ↑ ⇒ ↓ ⇐

What is the 16th figure in the pattern?

a ↑

b ⇒

c ↓

d ⇐

6 Consider the five terms in the following pattern.

If the pattern continues in the same way, how many circles will be in the seventh term?

a 21

b 25

c 28

d 36

14 Which rule describes the following pattern?

1, 2, 4, 8

a Start with 1 and add 1 to find the next term.

b Start with 1 and add 2 to find the next term.

c Start with 1 and divide by 2 to find the next term.

d Start with 1 and multiply by 2 to find the next term.