

4th Grade Operations & Algebraic Thinking - Standard 5 - Practice Test 1

1. 1 6 11 16 21 26 31 ____

What is the next number in this pattern?

- a. 33
- b. 36
- c. 40
- d. 35

2. 21 17 13 9 5 ____

What is the next number in this pattern?

- a. 0
- b. 3
- c. 1
- d. 4

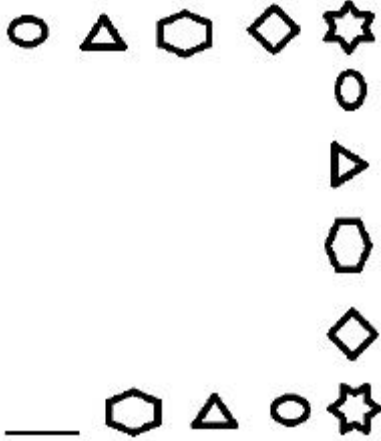
3. What is the pattern used in this sequence?

22 31 40 49 58

- a. +9
- b. +10
- c. -10
- d. +8

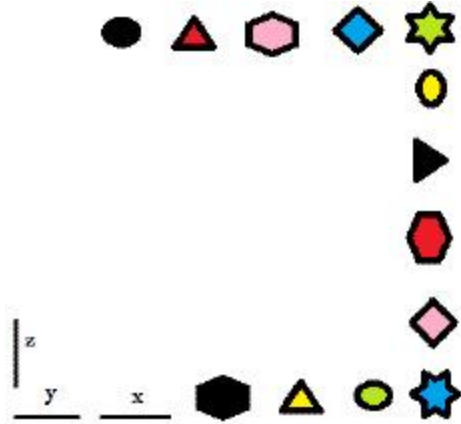
4.

What is the next shape in this pattern?



- a. ☆
- b. ○
- c. △
- d. ◇

5. What color will appear in space z in this pattern?



- a. 
- b. 
- c. 
- d. 

6. Which formula describes the pattern below?

10 11 21 22 32 33

- a. double one
- b. + 2
- c. add 11
- d. add 1 + 10

7. Martha likes to do certain things on certain days. Look at the chart below.

Day	Activity
Mon	cat pizza
Tues	ski
Wed	read
Thurs	jog
Friday	clean
Sat	eat pizza

According to the chart, what will she do on Sunday?

- a. ski
- b. read
- c. rest
- d. jog

8. Brett was training for a marathon race. His training schedule called for him to start the week on Monday with a 6 mile run, then increase it by a pattern of + 3 each day until the end of the week - Sunday. How far will Brett run on Thursday?

- a. 9 miles
- b. 15 miles
- c. 6 miles
- d. 26 miles

9. A B C D E A B C D _____ X

- a. A
- b. B
- c. C
- d. E

10. 17 21 25 29 33 37

Which description of this pattern is true?

- a. add an even number to an odd number and you get an odd number
- b. add an odd number to an odd number and you get an odd number
- c. add two numbers and you will get an odd number
- d. add two numbers and you will get an even number

Answer 1: B

Starting with 1, 5 has been added to each succeeding number. So, $31 + 5 = 36$.

Answer 2: C

Starting with 21, 4 has been subtracted from each number. So, $5 - 4 = 1$.

Answer 3: A

Answer 4: D

Answer 5: B

Answer 6: D

10 11 = add 1. 21 is add 10. 22 is add 1. 32 is add 10 and 33 is add 1 again.

Answer 7: A

The pattern repeats itself on Saturday with eat pizza. The next thing she does after pizza is ski. She will ski on Sunday

Answer 8: A

The pattern repeats itself on Saturday with eat pizza. The next thing she does after pizza is ski. She will ski on Sunday

Answer 9: B

Answer 10: A