_____
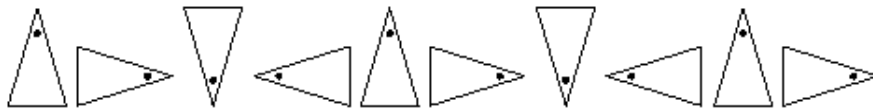
1   What are the next three numbers in this pattern?

    9, 5, 4, 7, 9, 5, 4, 7, 9, 5, 4, 7, 9, 5

        A   9, 5, 4
        B   4, 7, 9
        C   7, 9, 5
        D   5, 4, 7

2   This is a pattern made by turning a triangle.

    Which shows the next three figures?

        A

        B

        C

        D

3   What three numbers complete the pattern? Continue the pattern.

    24, 22, 20, 18, __, __, __

        A   17, 15, 13
        B   15, 13, 12
        C   16, 18, 20
        D   16, 14, 12

_____

4	What three numbers complete the pattern?

　　　9, 12, 15, 18, __, __, __

　　　　A	16, 14, 12
　　　　B	15, 12, 9
　　　　C	20, 22, 24
　　　　D	21, 24, 27

5	Brad is making costumes for the school play. The list below shows the total yards of cloth he used after making each costume.

　　18, 24, 30, 36

　　How many yards of cloth will he have used after he makes one more costume?

　　　　A	42
　　　　B	48
　　　　C	49
　　　　D	54

6	The numbers below form a pattern.

2, 4, 8, 16, 32, …

What is a rule for this pattern?

　　　　A	Add 2
　　　　B	Subtract 2
　　　　C	Multiply by 2
　　　　D	Multiply by 4

_____

7   Gina wrote the pattern below in her notebook.

300, 280, 260, 240, 220, …

What is the next number in Gina's pattern?

      A   200
      B   210
      C   220
      D   240

8   Tickets for a raffle were numbered in the following way: 1880, 1884, 1888, and 1892. What were the next three ticket numbers?

      A   1896, 1900, 1904
      B   1898, 1902, 1906
      C   1895, 1899, 1903
      D   1900, 1904, 1908

9   One spider has 8 legs. How many legs do three spiders have? Use the table below to solve.

Number of Spiders	Number of Legs
1	8
2	16
3	
4	32

      A   8
      B   21
      C   24
      D   40

_____

10   At a book fair all the books had the same price. This table shows the total prices for
     different numbers of books.

Number of Books	Total Price
4	$24
6	$36
8	■
10	$60

     What is the total price of 8 books?

          A $40
          B $44
          C $48
          D $52

11   This table shows the number of people who can fit in different numbers of Ferris wheel
     cars.

Number of Cars	3	6	9	12
Number of People	24	48	■	96

     How many people can fit into 9 Ferris wheel cars?

          A   64
          B   72
          C   80
          D   84

_____

_____

12   What rule can be used to find the number of hours it takes Joanne to read 54 pages?

Pages Read	18	27	54	72
Number of Hours	2	3	▪	8

    A   Subtract 16.
    B   Divide by 9.
    C   Divide by 8.
    D   Add 9.

13   Which numerical expression matches the situation?
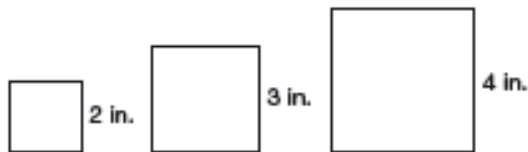
14 sheets of paper separated into 2 binders

    A $14 - 2$
    B $14 + 2$
    C $14 \div 2$
    D 14×2

14   What rule can be used to find the number of markers in 7 boxes?

Number of Boxes	3	5	7	9
Number of Markers	24	40	▪	72

    A   Add 21.
    B   Multiply by 8.
    C   Multiply by 7.
    D   Add 2.

_____

_____

15 Roger is measuring the perimeter around squares of different sizes. If the pattern
continues, what will the perimeter around a square with 5-inch sides be?

Length of each side	2	3	4	5
Perimeter	8	12	16	

    A   5 inches
    B   10 inches
    C   15 inches
    D   20 inches

16 Deidre is using wire to make triangles of different sizes. The triangles will be hung from the
ceiling for her school's annual math day. How many inches of wire will she need to make a
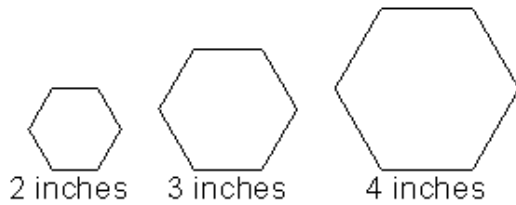triangle with sides that are 12 inches long?

5 inches 6 inches 7 inches

Number on One Side	5	6	7	12
Inches of Wire	15	18	21	

    A   24
    B   36
    C   48
    D   60

_____

_____

17 Mandy is going to make six-sided figures in different sizes for a mural. Each figure will have sides with equal lengths. She wants to outline each figure with glow tape. How many inches of glow tape will she need for a figure whose sides are 7 inches long?

2 inches   3 inches   4 inches

Inches on One Side	2	3	4	7
Inches of Glow Tape	12	18	24	■

    A   28
    B   35
    C   42
    D   49

18 Avram has 16 tiles. 5 are white. There are 3 more blue tiles than red tiles. How many red tiles does Avram have?

    A   2
    B   3
    C   4
    D   5

19 Charles has a deck of 24 cards. Nine of the cards are yellow. There are 3 more orange cards than purple cards. How many purple cards are in the deck?

    A   3
    B   6
    C   9
    D   12

_____

20   There are 15 pieces of fruit in a box. 4 are apples. There are 3 more pears than bananas. How many pears are in the box?

        A   7
        B   6
        C   5
        D   4