

Tender Heart High School, Sec-33B, Chandigarh.

Class - V

Date - 19.08.24

Subject - Mathematics

Teacher - Ms. Sushma

Ex 7.4

A. Subtract the first number from the second.

1. $-11, 6$

Soln:- $6 - (-11) = 6 + 11 = 17$

2. $7, 2$

Soln:- $2 - 7 = -5$

3. $-68, -70$

$$= -70 - (-68)$$

$$= -70 + 68$$

$$= -2$$

4. $-12, 26$

$$26 - (-12)$$

$$26 + 12 = 38$$

B. Find the difference.

1. $35 - 20 = 15$

2. $16 - 36 = -20$

3. $-13 - (-50) = -13 + 50 = +37$

3. Solve and put $>$, $<$ or $=$ in the $\bigcirc$.

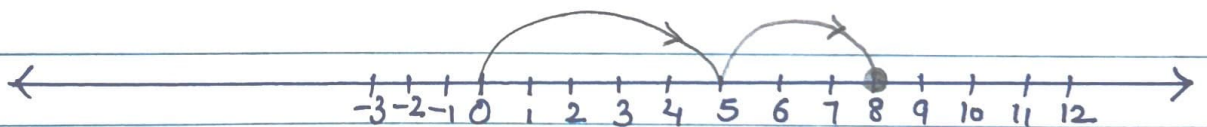
1. $(-45) - (-25)$ $\bigcirc$ $-25 - (-45)$
 $-45 + 25 = -20$ $\bigcirc$ $-25 + 45 = 20$
So, $-45 - (-25) < -25 - (-45)$

2. $(-20) - (-10)$ $\bigcirc$ $(-30) - 20$
 $= -20 + 10$ $\bigcirc$ $-30 - 20$
 $= -10$ $\bigcirc$ -50

3. $(-7) + 16$ $\bigcirc$ $(-7) - (-16)$
 $-7 + 16$ $\bigcirc$ $-7 + 16$
 9 $\bigcirc$ 9

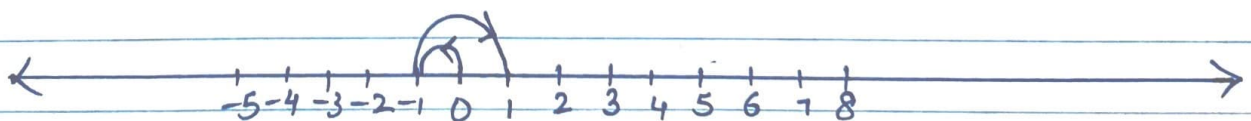
D. Using the number line, write the following integers.

1. 3 more than 5.

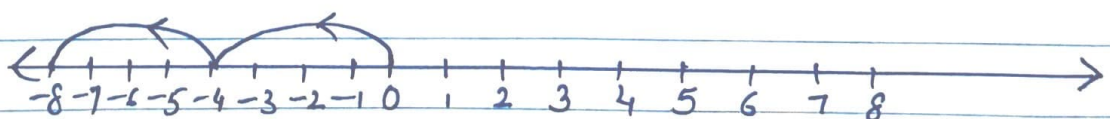


Ans:- 8.

2. 2 more than -1 is 1



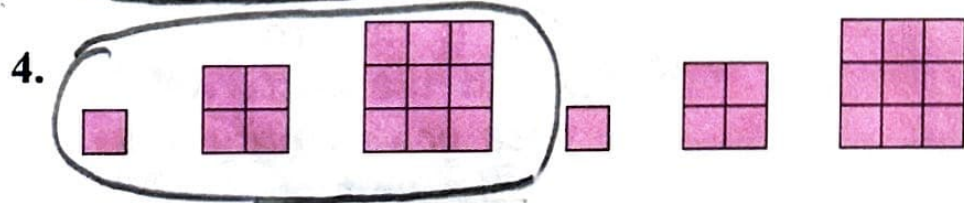
3. 4 less than -4 is -8.



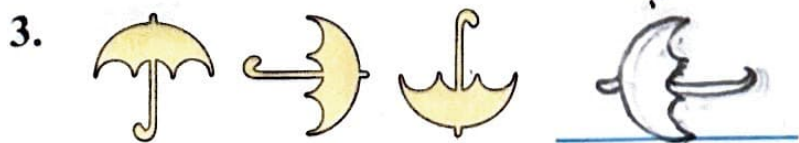
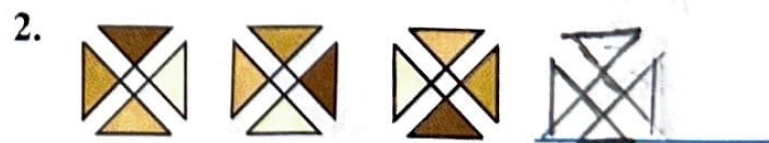
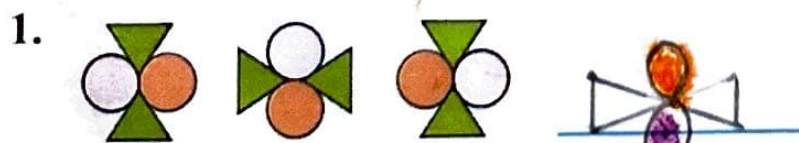
Exercise 15.1



A. Circle the unit of repeat in each pattern. Then draw the next two figures for the pattern.



B. What will come next in each pattern?



B. Identify the rule for each progressive pattern and write the next three numbers.

1. $4, 10, 16, 22, 28, \underline{34}, \underline{40}, \underline{46}$

2. $39, 34, 29, 24, 19, \underline{14}, \underline{9}, \underline{4}$

3. $15, 30, 45, 60, 75, \underline{90}, \underline{105}, \underline{120}$

4. $107, 98, 89, 80, 71, \underline{62}, \underline{53}, \underline{44}$

5. $1, 2, 4, 8, 16, \underline{32}, \underline{64}, \underline{128}$

6. $1, 2, 5, 14, 41, \underline{122}, \underline{365}, \underline{1094}$ Rule - $3x-1$

C. Identify the pattern and fill in the blanks.

1. $37 \times 3 = 111$

$37 \times 6 = 222$

$37 \times 9 = 333$

$37 \times \underline{12} = 444$

$37 \times 15 = \underline{555}$

$37 \times 18 = \underline{666}$

2. $222222222 \times 9 = 1999999998$

$333333333 \times 9 = 2999999997$

$444444444 \times 9 = 3999999996$

$555555555 \times \underline{9} = \underline{4999999995}$

$666666666 \times \underline{9} = \underline{5999999994}$

3. $1 + 3 = 4 = 2 \times 2$

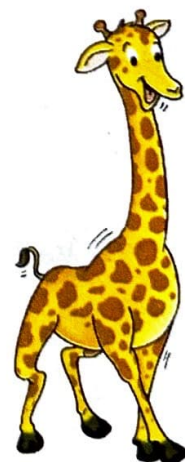
$1 + 3 + 5 = 9 = 3 \times 3$

$1 + 3 + 5 + 7 = 16 = 4 \times 4$

$1 + 3 + 5 + 7 + 9 = 25 = \underline{5 \times 5}$

$1 + 3 + 5 + 7 + 9 + 11 = \underline{36} = \underline{6 \times 6}$

$1 + 3 + 5 + 7 + 9 + 11 + 13 = \underline{49} = \underline{7 \times 7}$



We have patterns on our body as well!



4. $11 \times 11 = 121$

$$111 \times 111 = 12321$$

$$1111 \times 1111 = 1234321$$

$$11111 \times 11111 = \underline{123454321}$$

$$111111 \times 111111 = \underline{12345654321}$$

Exercise 15.3



A. Fill in the correct option – triangular or square.

1. The sum of the first ten consecutive natural numbers is a triangular number.
2. The sum of the first five consecutive odd natural numbers is a square number.
3. The numbers that are formed by multiplying a number by itself are called square numbers.

B. Find and write.

1. The sixth triangular number $\rightarrow 21 \rightarrow 6 + 5 + 4 + 3 + 2 + 1$
2. The ninth triangular number $\rightarrow 45 \rightarrow 9 + 8 + 7 + 6 + 5 + 4 + 3 + 2 + 1$
3. The triangular number between 50 and 56 $\rightarrow 55$
4. The eighth square number $8 \times 8 = 64$
5. The tenth square number $10 \times 10 = 100$

