

CLASS NOTES

Class: III

Topic: Chapter 10

Subject: Mathematics

PLAY WITH PATTERNS

Do these exercises in your Maths Workbook (Page no- 71 to 76)

10 PLAY WITH PATTERNS

REPEATING PATTERNS!

1. Find the rule after observing the pattern and continue the pattern.

(a) midnight, dawn, noon, dusk, midnight *dawn noon dusk*

(b) A, C, E, G, I, *K M O Q S*

(c) A1, B2, C3, D4, E5, *F6 G7 H8 I9 J10*

(d) ZA, YB, XC, VD, UE, *TF SG RH QI PJ*

(e) M, NN, OOO, P, QQ, RRR, *S TT UUU V WW*

GROWING PATTERNS!

1. Complete these growing patterns.

(a) 3, 66, 999, 3333, 66666, 999999, 3333333, 66666666, 99999999, 333333333

(b)

(c) $\uparrow, \downarrow, \uparrow\downarrow, \uparrow\uparrow\downarrow, \uparrow\uparrow\uparrow\downarrow, \uparrow\uparrow\uparrow\downarrow\downarrow, \uparrow\uparrow\uparrow\downarrow\downarrow\downarrow, \uparrow\uparrow\uparrow\downarrow\downarrow\downarrow\downarrow, \uparrow\uparrow\uparrow\downarrow\downarrow\downarrow\downarrow\downarrow, \uparrow\uparrow\uparrow\downarrow\downarrow\downarrow\downarrow\downarrow\downarrow$

(d) $\Delta O, \Delta OO, \Delta\Delta OO, \Delta\Delta OOO, \Delta\Delta\Delta OOOO, \Delta\Delta\Delta OOOOO, \Delta\Delta\Delta OOOOOO, \Delta\Delta\Delta\Delta OOOOOO, \Delta\Delta\Delta\Delta OOOOOOO$



NUMBER PATTERNS

Complete the following number patterns.

(a) 11, 21, 31, 41, 51, 61, 71, 81, 91, 101, 111, 121, 131

(b) 68, 63, 58, 53, 48, 43, 38, 33, 28, 23, 18, 13

(c) 21, 32, 43, 54, 65, 76, 87, 98, 109, 120, 131, 142

(d) 90, 86, 82, 78, 74, 70, 66, 62, 58, 54, 50, 46

(e) 1, 3, 6, 10, 15, 21, 28, 36, 45, 55, 66, 78, 91

CODED MESSAGES!

1. Make your secret number code.

A — 1, B — 2, C — 3, D — 4, and so on upto X — 24, Y — 25, Z — 26.

2. Now write the following in number code.

(a) I STUDY IN CLASS THREE

9 19,20,21,4,25 9,14 3,12,1,19,19 20,8,18,5,5

(b) I AM EIGHT YEARS OLD

9 1,13 5,9,7,8,20 25,5,1,18,19 15,12,4



EVEN AND ODD NUMBERS

COLOUR FUN

1. Colour the boxes with even numbers in red and the boxes with odd numbers in green.

102	756	508		643	921	805
18				35		639
840	34			77		923
72				83		11
952	206	928		955	251	407

WHICH NUMBER AM I?

1. I am an odd number greater than 5 but less than 9. 7
2. I am the smallest even number. 2
3. I am an even number with 7 tens and no ones. 70
4. I am an odd number with 10 tens and 5 ones. 105
5. I am the greatest odd number less than 50. 49
6. I am an even number 1 less than the biggest 3 digit number. 998
7. I am an odd number 1 more than the smallest 3 digit number. 101
8. I am an odd number 2 less than the biggest 2 digit number. 97
9. I am the even number 10 more than the smallest 2 digit number. 20
10. I am the greatest even number less than 100. 98



WRITING NUMBERS

1. Write all even numbers between

(a) 424 and 448

426, 428, 430, 432, 434, 436, 438, 440, 442,
444, 446.

(b) 896 and 914

898, 900, 902, 904, 906, 908, 910, 912.

2. Write all odd numbers between

(a) 555 and 579

557, 559, 561, 563, 565, 567, 569, 571, 573,
575, 577.

(b) 299 and 321

301, 303, 305, 307, 309, 311, 313, 315, 317,
319.

PATTERN TIME!

Complete the number patterns! Write whether they are odd or even numbers.

(a) 631, 633, 635, 637, 639, 641, 643, 645, 647, 649

odd (skip 2)

(b) 514, 518, 522, 526, 530, 534, 538, 542, 546, 550

even (skip 4)

(c) 843, 847, 851, 855, 859, 863, 867, 871, 875, 879

odd (skip 4)

(d) 754, 760, 766, 772, 778, 784, 790, 796, 802, 808

even (skip 6)



ODD AND EVEN NUMBERS FACTS

1. Tick the correct answer. If your answer is an even number colour it in red and if it is an odd number colour it in green.

(a) Sum of two even numbers *Eg. (2+4=6)*



(b) Sum of two odd numbers *Eg. (3+5=8)*



(c) Sum of an even and an odd number *Eg. (3+4=7)*



(d) Difference of two even numbers *Eg. (10-2=8)*



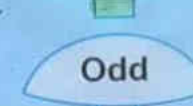
(e) Difference of two odd numbers *Eg. (11-3=8)*



(f) Difference between an even and an odd number
Eg. (8-3=5)



(g) Product of two even numbers *Eg. (2x4=8)*

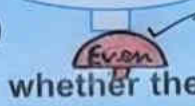


(h) Product of two odd numbers *Eg. (3x5=15)*



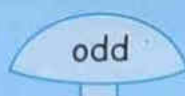
(i) Product of an even and an odd number

Eg. (4x5=20)



2. Find the sum, difference and product. Write whether the answer is an odd or an even number.

(a) $12 + 11 = 23$



(e) $13 + 16 = 29$



(b) $40 + 24 = 64$



(f) $6 \times 8 = 48$



(c) $7 \times 5 = 35$



(g) $16 - 8 = 8$



(d) $20 - 9 = 11$



(h) $9 \times 6 = 54$



(e) $2 \times 9 = 18$



(i) $15 - 7 = 8$



3. Figure me out!

- (a) Find the product of the smallest 2-digit odd number and the smallest 2-digit even number.

$$\begin{array}{c} \text{11} \\ \text{---} \\ \text{11} \end{array} \times \begin{array}{c} \text{10} \\ \text{---} \\ \text{10} \end{array} = \begin{array}{c} \text{110} \\ \text{---} \\ \text{110} \end{array}$$

- (b) Find the sum of the biggest 3 digit even number and the biggest 2-digit odd number.

$$\begin{array}{c} \text{998} \\ \text{---} \\ \text{998} \end{array} + \begin{array}{c} \text{99} \\ \text{---} \\ \text{99} \end{array} = \begin{array}{c} \text{1097} \\ \text{---} \\ \text{1097} \end{array}$$

- (c) Find the difference between the biggest 3-digit odd number and the smallest 2-digit even number.

$$\begin{array}{c} \text{999} \\ \text{---} \\ \text{999} \end{array} - \begin{array}{c} \text{10} \\ \text{---} \\ \text{10} \end{array} = \begin{array}{c} \text{989} \\ \text{---} \\ \text{989} \end{array}$$

FUN TIME!

Squiggy the squirrel can reach his house by eating only those peanuts which have even sums, differences or products. Help him find his way home.



START

