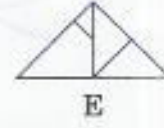
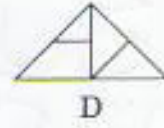
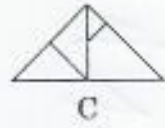
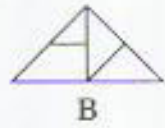
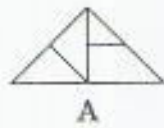


Which two are exactly the same? Select two letters each time. Mark *both* letters on the answer sheet.

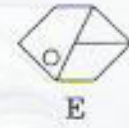
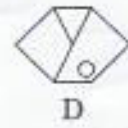
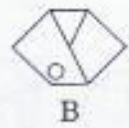
1



2



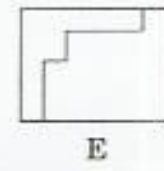
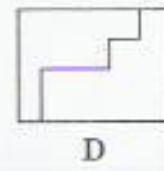
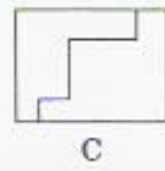
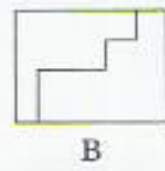
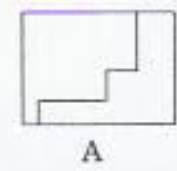
3



4



5



What fraction is shaded each time? Select one answer and mark it on the answer sheet.

6



$\frac{3}{4}$     $\frac{5}{6}$     $\frac{2}{3}$     $\frac{3}{5}$

7



$\frac{1}{4}$     $\frac{3}{8}$     $\frac{1}{3}$     $\frac{2}{5}$

8



$\frac{1}{3}$     $\frac{1}{4}$     $\frac{1}{2}$     $\frac{2}{5}$

9



$\frac{2}{3}$     $\frac{4}{7}$     $\frac{5}{8}$     $\frac{5}{6}$

10



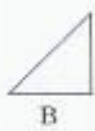
$\frac{3}{4}$     $\frac{5}{9}$     $\frac{2}{3}$     $\frac{1}{2}$

11



$\frac{1}{4}$     $\frac{7}{12}$     $\frac{1}{3}$     $\frac{3}{8}$

Which is the odd one out in this group of shapes? Select one letter each time and mark it on the answer sheet. Look at this example.



A

B

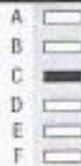
C

D

E

F

Example



12



A

B

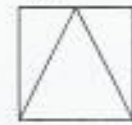
C

D

E

F

13



A

B

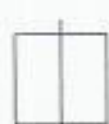
C

D

E

F

14



A

B

C

D

E

F

15



A

B

C

D

E

F

16



A

B

C

D

E

F

17



A

B

C

D

E

F

18



A

B

C

D

E

F

19



A

B

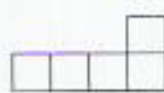
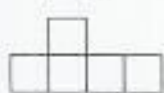
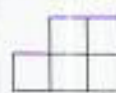
C

D

E

F

20



A

B

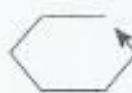
C

D

E

F

21



A

B

C

D

E

F

Which shape is the same but facing the opposite direction. Select one letter each time and mark it on the answer sheet. Look at this example.



A

B

C

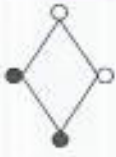
D

E

Example

- A
- B
- C
- D
- E

22



A

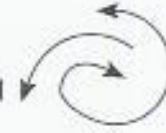
B

C

D

E

23



A

B

C

D

E

24



A

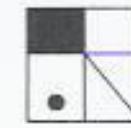
B

C

D

E

25



A

B

C

D

E

26



A

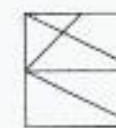
B

C

D

E

27



A

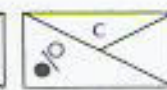
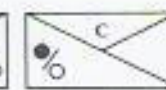
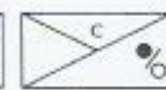
B

C

D

E

28



A

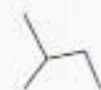
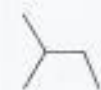
B

C

D

E

29



A

B

C

D

E



Which shape is different from the other four? Select one letter each time and mark it on the answer sheet.

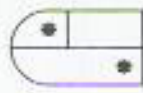
30



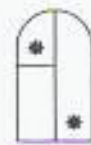
A



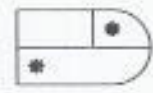
B



C



D



E

31



A



B



C



D



E

32



A



B



C



D



E

33



A



B



C



D



E

34



A



B



C



D



E

Find the number that continues each sequence in the correct way and mark it on the answer sheet.

35

23, 19, 15, 11, 7, [?]

36

1, 2, 5, 6, 9, [?]

37

50, 41, 32, 23, 14, [?]

38

1, 3, 7, 13, 21, [?]

39

486, 162, 54, 18, 6, [?]

What comes next in this series? Select one letter each time and mark it on the answer sheet. Look at this example.



A

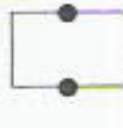
B

C

D



40



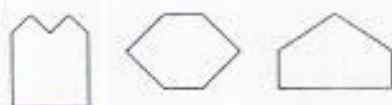
A

B

C

D

41



A

B

C

D

42



A

B

C

D

E

43



A

B

C

D

E

44



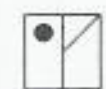
A

B

C

D

45



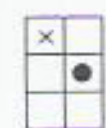
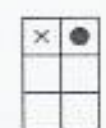
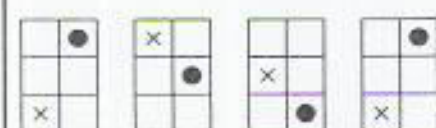
A

B

C

D

46



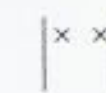
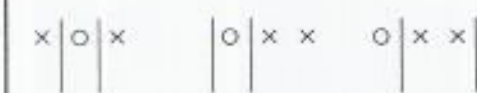
A

B

C

D

47



A





B

C





D

Analogies? Select one letter each time and mark it on the answer sheet.




Look at this example.





○ is to ● as □ is to    

A B C D

| Example |   |
|---------|---|
| A       |  |
| B       |  |
| C       |  |
| D       |  |




48





 is to  as  is to

A B C D




49





 is to  as  is to

A B C D

50

 is to  as  is to

A B C D

51

 is to  as  is to

A B C D

52

 is to  as  is to

A B C D

53

 is to  as  is to

A B C D




54





 is to  as  is to

A B C D




55





 is to  as  is to

A B C D




56





 is to  as  is to

A B C D

57

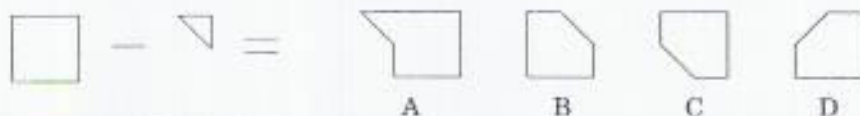
 is to  as  is to

A B C D



In these questions the two shapes are either added together or subtracted from each other. The shapes do not turn. Select one letter each time and mark it on the answer sheet. Look at this example.

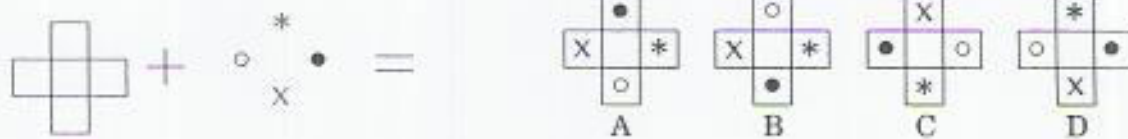


| Example |                                     |
|---------|-------------------------------------|
| A       | <input type="checkbox"/>            |
| B       | <input checked="" type="checkbox"/> |
| C       | <input type="checkbox"/>            |
| D       | <input type="checkbox"/>            |

58



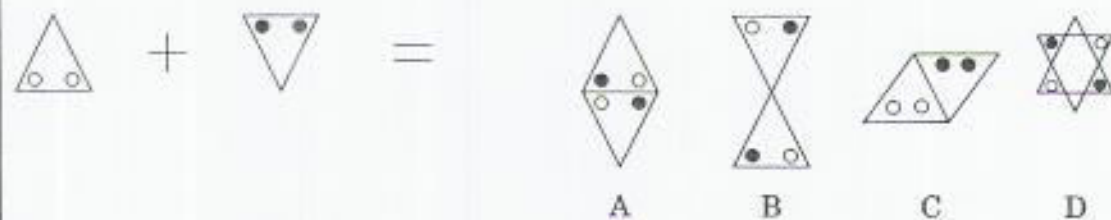
59



60



61



62



Complete this mathematical table. Mark your answers on the answer sheet.

|    |    |    |    |    |    |
|----|----|----|----|----|----|
| 63 | 64 | x  |    | 7  |    |
| 65 | 66 | 67 |    | 35 |    |
| 68 | 69 | 3  | 24 |    |    |
| 70 | 71 | 4  |    |    | 36 |

Supply the missing numbers in the subtraction sum. Mark your answers on the answer sheet.

$$\begin{array}{r}
 6247 \\
 - \square 82\square \\
 \hline
 1\square\square 9
 \end{array}$$