



JK Chrome

JK Chrome | Employment Portal



Rated No.1 Job Application of India

Sarkari Naukri
Private Jobs
Employment News
Study Material
Notifications



JOBS



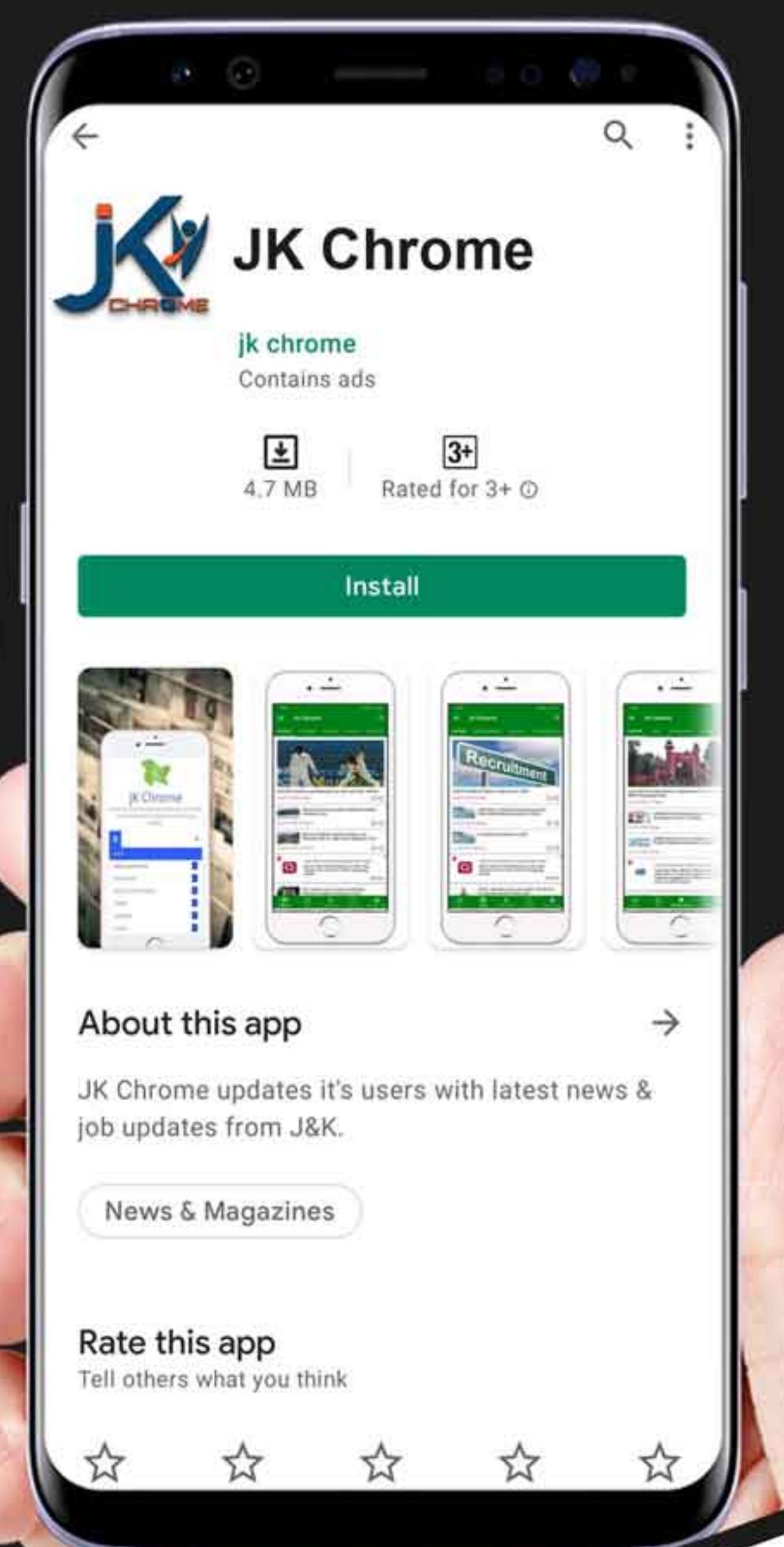
NOTIFICATIONS



G.K



STUDY MATERIAL



GET IT ON



Google play



JK Chrome

jk chrome
Contains ads



www.jkchrome.com | Email : contact@jkchrome.com

CHAPTER

15

Counting of Figures/Figure Formation & Analysis, Grouping of Figures

DIRECTIONS (Q. 1) : Among the four answer figures, which figure can be formed from the cut-pieces given below in the question figure?

1. **Question Figure:**

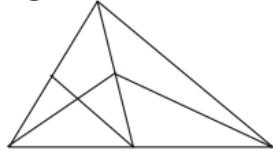


Answer Figures:



(SSC CGL 1st Sit. 2010)

2. How many triangles are there in the following figure ?



(SSC CGL 1st Sit. 2010)

(a) 11 (b) 13 (c) 9 (d) 15

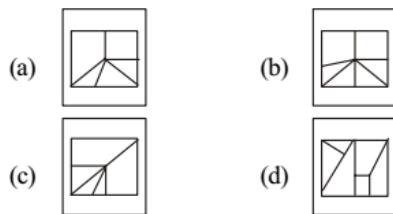
3. Among the four answer figures, which figure can be formed from the cut pieces given below in the question figure ?

Questions Figure :

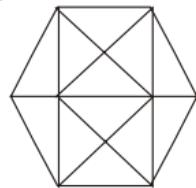
(SSC CGL 2nd Sit. 2010)



Answer Figures :



4. How many triangles are there in the following figure ?



(SSC CGL 2nd Sit. 2010)

(a) 20 (b) 24 (c) 28 (d) 32

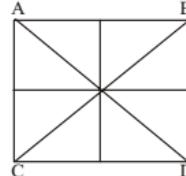
5. How many rectangles are there in the given diagram?



(SSC CGL 1st Sit. 2011)

(a) 4 (b) 7 (c) 9 (d) 18

6. How many triangles are there in the given figure?

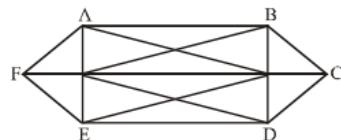


(SSC CGL 2nd Sit. 2011)

(a) 16 (b) 14 (c) 8 (d) 12

7. How many triangles are there in the figure ABCDEF?

(SSC Sub. Ins. 2012)



(a) 24 (b) 26 (c) 28 (d) 30

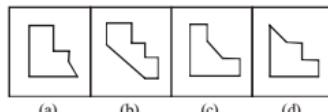
In the question, one part of the problem figure is subtracted. Select the option that shows the correct shape after subtraction.

(SSC Sub. Ins. 2012)

Question Figure

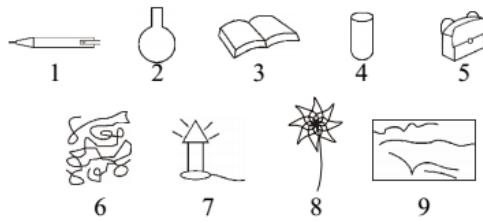


Answer Figures



9. A series of figures are given which can be grouped as related to students, artists and scientists. Select the groups into which the figures can be classified.

(SSC Sub. Ins. 2012)

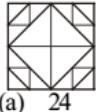


1. Pen
2. Flask
3. Book
4. Test Tube
5. School bag
6. Design
7. Flame
8. Flower
9. Painting

(a) (1, 3, 5)(2, 4, 7)(6, 8, 9) (b) (2, 3, 5)(1, 6, 7)(4, 8, 9)
 (c) (1, 2, 6)(3, 4, 8)(7, 5, 9) (d) (3, 4, 5)(1, 2, 6)(7, 8, 9)

10. How many triangles are there in this figure?

Question figure :



(a) 24

(b) 26

(c) 28

(d) 20

(SSC CHSL 2012)

DIRECTIONS (Qs. 11-18) : Among the four answer figures, which figure can be formed from the cut-pieces given below in the question figure?

11. **Question Figure :** (SSC Multitasking 2013)



Answer Figures :



12. **Question Figure :**



Answer Figures :



13. Which answer figure includes all the components given in the question figure? (SSC CGL 1st Sit. 2013)

Question Figure :



Answer Figures :



14. Identify the response figure from which the question figure's pieces have been cut. (SSC CGL 2nd Sit. 2013)

Question figure



Answer Figures.



(a)

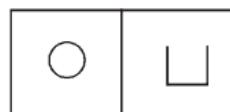
(b)

(c)

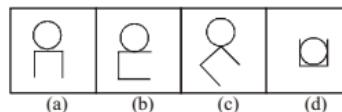
(d)

15. There is a ball and a rectangular jar. Four positions are shown below to keep them balanced. Which of the following will not get balanced easily? (SSC CGL 1st Sit. 2013)

Question figures:



Answer figures:

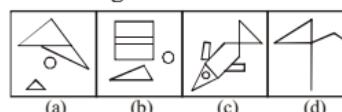


16. Which of the answer figures include the separate components found in the question figure?

Question figure: (SSC CGL 1st Sit. 2013)



Answer figure:

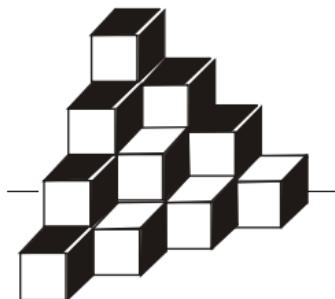


(a)

(b)

(c)

(d)



(SSC CGL 1st Sit. 2013)

(a) 16 (b) 18 (c) 20 (d) 10

18. How many triangles are there in the given figure?

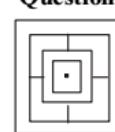


(SSC CGL 1st Sit. 2013)

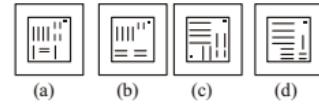
(a) 10 (b) 12 (c) 14 (d) 11

19. Find out which of the answer figures will exactly make up the question figure? (SSC CGL 1st Sit. 2013)

Question Figure:



Answer Figures:



(a)

(b)

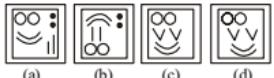
(c)

(d)

20. Find out which of the following answer figures will exactly make up the question figure? (SSC CGL 1st Sit. 2013)



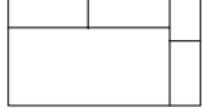
Question Figure :



(a) (b) (c) (d)

21. How many rectangles are there in the question figure?

Question figure :



(SSC CHSL 2014)

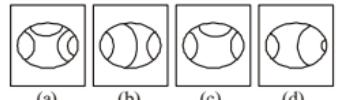
(a) 6 (b) 7 (c) 8 (d) 9

22. Among the for answer figures, which figure can be formed from the cut - pieces given below in the question figure?

Question figure :



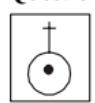
Answer figures :



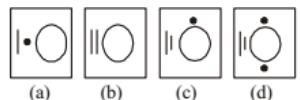
(SSC CHSL 2014)

23. Find out which answer figure will exactly make up the question figure. (SSC CGL 1st Sit. 2014)

Question figure :



Answer figures :



(a) (b) (c) (d)

24. How many triangles are there in the give figure?

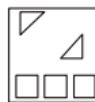


(SSC CGL 1st Sit. 2014)

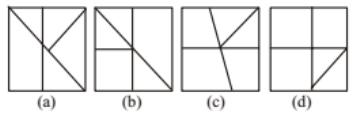
(a) 48 (b) 60 (c) 56 (d) 52

25. Identify the answer figure from which the pieces given in the question figure have been cut.

Question Figure

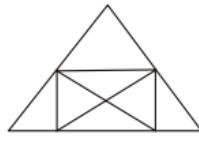


Answer Figure



(SSC CHSL 2015)

26. Find the number of triangles in the following figure:



(SSC CHSL 2015)

(a) 8 (b) 14 (c) 10 (d) 12

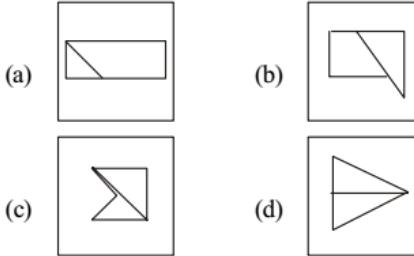
27. How many triangles are there in the figure?



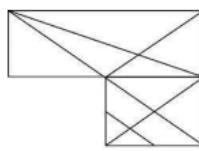
(SSC CGL 1st Sit. 2015)

(a) 24 (b) 14 (c) 28 (d) 20

28. In the question one part of the problem figure is subtracted. Select the option that shows the correct shape by the subtraction. (SSC CGL 1st Sit. 2015)



29. How many triangles can be found out from the following figure:



(SSC CGL 1st Sit. 2016)

(a) 17 (b) 21 (c) 24 (d) 25

30. How many triangles are there in the question figure?



(SSC CGL 1st Sit. 2016)

(a) 18 (b) 24 (c) 28 (d) 30

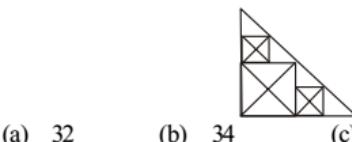
31. How many triangles are there in the given figure? (SSC CGL 2017)



(a) 20
(b) 22
(c) 28
(d) 32

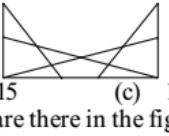
32. How many triangles are there in the given figure?

(SSC CGL 2017)



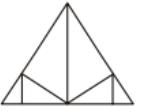
(a) 32 (b) 34 (c) 37 (d) 40

33. How many triangles are there in the given figure?
(SSC CGL 2017)



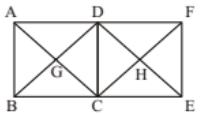
(a) 14 (b) 15 (c) 17 (d) 18

34. How many triangles are there in the figure?
(SSC CGL 2017)



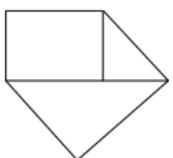
(a) 10 (b) 11 (c) 12 (d) 13

35. How many triangles are there in the given figure?
(SSC MTS 2017)



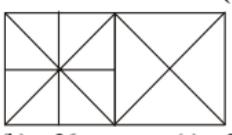
(a) 16 (b) 18 (c) 8 (d) 12

36. How many quadrilaterals are there in the given figure?
(SSC Sub. Ins. 2017)



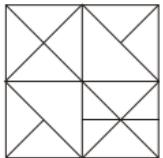
(a) 2 (b) 3 (c) 4 (d) 5

37. How many triangles are there in the given figure?
(SSC Sub. Ins. 2017)



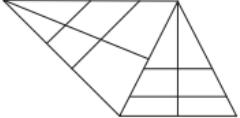
(a) 24 (b) 26 (c) 28 (d) 30

38. How many triangles are there in the following figure?
(SSC CGL 2018)



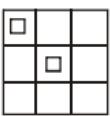
(a) 34 (b) 32 (c) 36 (d) 24

39. How many triangles are there in the following figure?



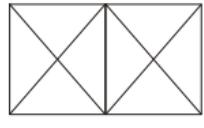
(a) 20 (b) 18 (c) 16 (d) 22

40. How many squares are present in the following figure?
(SSC CHSL 2018)



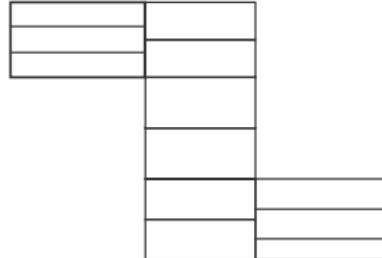
(a) 12 (b) 14 (c) 18 (d) 16

41. How many triangles are there in the following figure?
(SSC Sub. Ins. 2018)



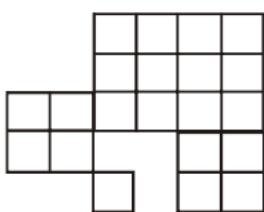
(a) 10 (b) 18 (c) 16 (d) 14

42. How many rectangles are there in the given figure?
(SSC CGL 2019-20)



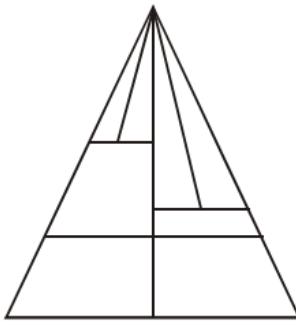
(a) 34 (b) 30 (c) 32 (d) 33

43. How many squares are there in the given figure?
(SSC CHSL 2019-20)



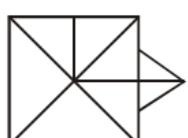
(a) 29 (b) 33 (c) 32 (d) 34

44. How many triangles are there in the given figure?
(SSC CGL 2020-21)



(a) 12 (b) 8 (c) 11 (d) 15

45. How many triangles are there in the given figure?
(SSC CHSL 2020-21)

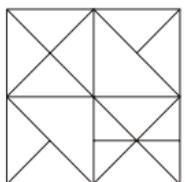


(a) 16 (b) 15 (c) 17 (d) 14

ΔAIH; ΔAIE; ΔEIB; ΔBFI;
 ΔIHC; ΔIGC; ΔIGD; ΔDFI;
 ΔIAB; ΔIBD; ΔICD; ΔIAC;
 ΔBAC; ΔACD; ΔBDC; ΔBDA;
 ΔBLD; ΔLDK; ΔKLJ; ΔJLB;
 ΔJBK; ΔBDK; ΔDBJ; ΔDKJ
 ΔADJ; ΔCBK.

Thus, there are 26 triangles.

38. (a)

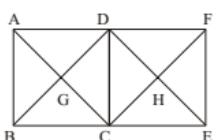


By simple counting, we get that number of triangles in the given figure = 34.

39. (b) After counting the number of triangles in the given figure, we get that, total number of triangles = 18.

40. (d) Number of squares in the given figure are 16.

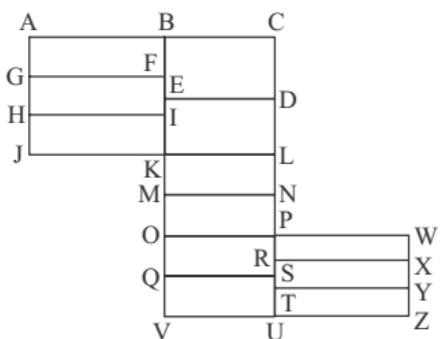
41. (b) According to figure,



The triangles are :

ΔAGD, ΔAGB, ΔADB, ΔACF, ΔABC, ΔADC,
 ΔBGC, ΔBDC, ΔBDE, ΔDGC, ΔDHF, ΔDHC,
 ΔDCF, ΔDEC, ΔDFE, ΔCHE, ΔCFE, ΔFHE
 Thus, there are 18 triangles.

42. (d)



The simplest rectangler are \Rightarrow ABGF, GHFI, HIJK, BCED, EDKL, KLMN, MNOP, OPQR, QSVU, PWSX, SXTY, TYUZ = 12

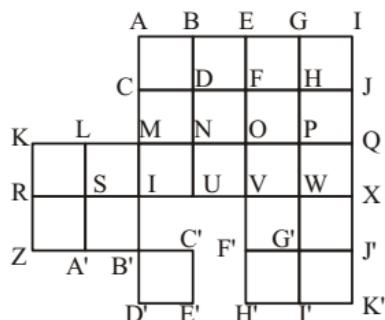
The rectangle composed of two components each are \Rightarrow ABHI, GFJK, BCKL, EDMN, KLOP, MNQS, OPVU, PWTY, RXUZ = 9

The rectangle composed of three components each are \Rightarrow ABJK, BCMN, EDOP, KLQS, MNVU, PWUZ = 6

The rectangle composed of four and more than four components each are \Rightarrow BCOP, KLVU, EDQS, ACJL, BCVU, OWUZ = 6

Total rectangles are $= 12 + 9 + 6 + 6 = 33$.

43. (c)



Smallest Square :

ABCD, BDFE, EFHG, GHII, CMND, DNOF, FOPH, HPQJ,
 KRSL, LSIM, MIUN, NUVO, OVWP, PWXQ, RZA'S,
 A'SIB', VFG'W, G'WXJ', B'D'E'C', FHTG', GTKJ'

Square formed with four squares -

AMOE, EOQI, CFVI, FVXJ, BNPG, DUWH, KZB'M,
 VH'K'X, OFJQ

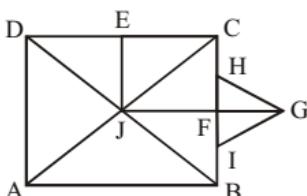
Square formed with nine squares -

AGWI, BUXI

Hence, there are 32 squares are there in the given figure.

44. (a) There are 12 triangles in the given figure.

45. (b)



Triangles = ΔABD , ΔABC , ΔACD , ΔABC , ΔADJ , ΔABD ,
 ΔBCJ , ΔCDJ , ΔDEJ , ΔCEJ , ΔBFJ , ΔCFJ , ΔGHI , ΔFGH ,
 ΔFGI

Hence, total no. of triangles = 15



JK Chrome

JK Chrome | Employment Portal



Rated No.1 Job Application of India

Sarkari Naukri
Private Jobs
Employment News
Study Material
Notifications



JOBS



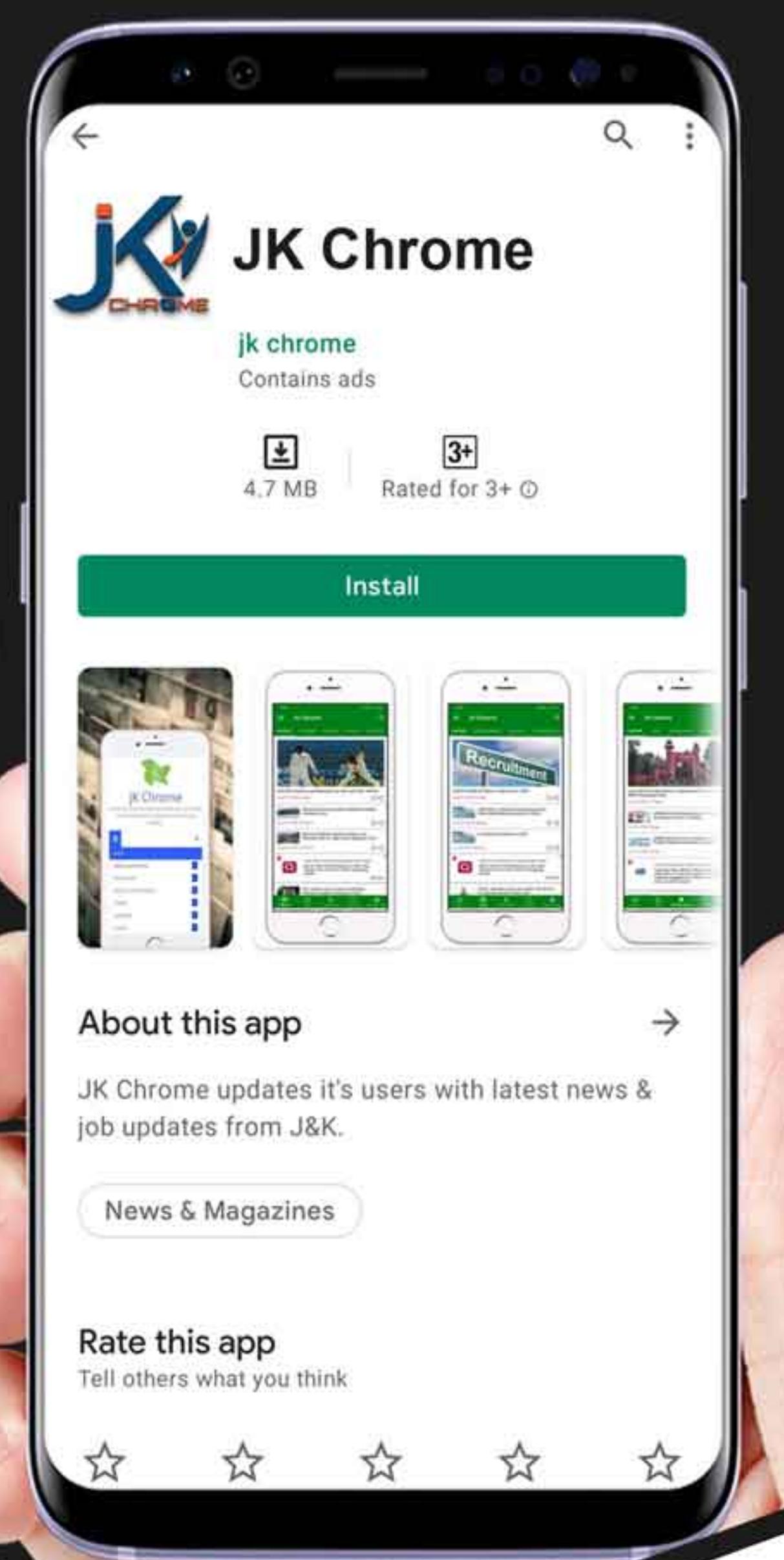
NOTIFICATIONS



G.K



STUDY MATERIAL



GET IT ON



Google play



JK Chrome

jk chrome
Contains ads



www.jkchrome.com | Email : contact@jkchrome.com