



# JK Chrome

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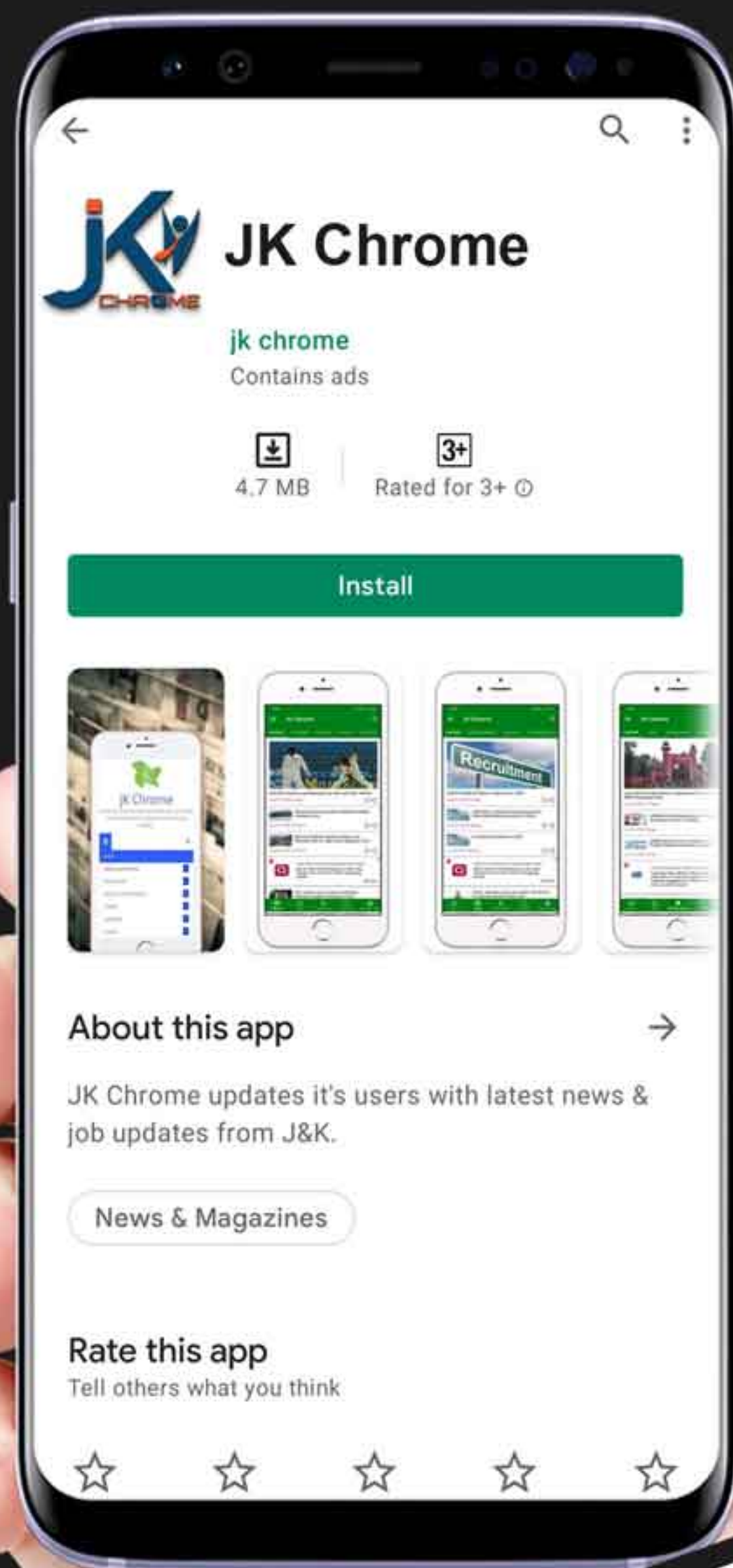
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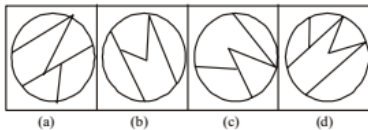


**DIRECTIONS (Q. 1) :** Among the four answer figures, which figure can be formed from the cut-pieces given below in the question figure?

1. **Question Figure:**

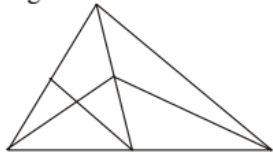


**Answer Figures:**



(SSC CGL 1<sup>st</sup> Sit. 2010)

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

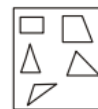


(SSC CGL 1<sup>st</sup> Sit. 2010)

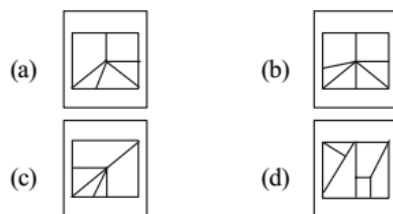
- (a) 11 (b) 13 (c) 9 (d) 15

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

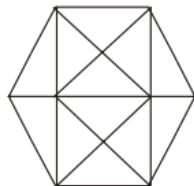
**Questions Figure :** (SSC CGL 2<sup>nd</sup> Sit. 2010)



**Answer Figures :**



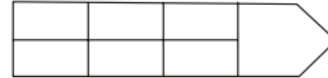
4. How many triangles are there in the following figure ?



(SSC CGL 2<sup>nd</sup> Sit. 2010)

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

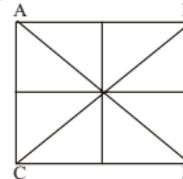
5. How many rectangles are there in the given diagram?



(SSC CGL 1<sup>st</sup> Sit. 2011)

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

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

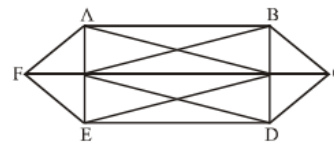


(SSC CGL 2<sup>nd</sup> Sit. 2011)

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

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

(SSC Sub. Ins. 2012)

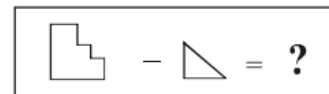


- (a) 24 (b) 26 (c) 28 (d) 30

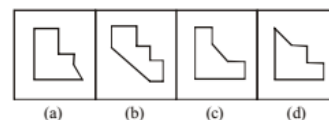
8. In the question, one part of the problem figure is subtracted. Select the option that shows the correct shape after subtraction.

(SSC Sub. Ins. 2012)

**Question Figure**

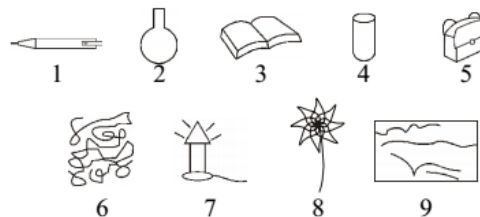


**Answer Figures**



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

- (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?



- (a) 24 (b) 26 (c) 28 (d) 20

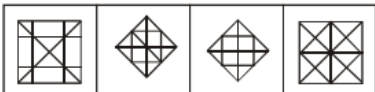
(SSC CHSL 2012)

**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)



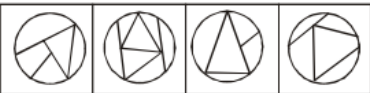
Answer Figures :



12. Question Figure :



Answer Figures :



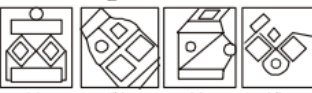
- (a) (b) (c) (d)

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

Question Figure :



Answer Figures :



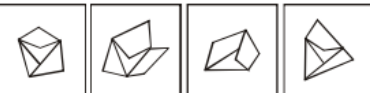
- (a) (b) (c) (d)

14. Identify the response figure from which the question figure's pieces have been cut. (SSC CGL 2<sup>nd</sup> 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 1<sup>st</sup> Sit. 2013)

Question figures:



Answer figures:

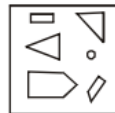


- (a) (b) (c) (d)

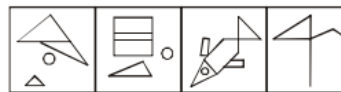
16. Which of the answer figures include the separate components found in the question figure?

Question figure:

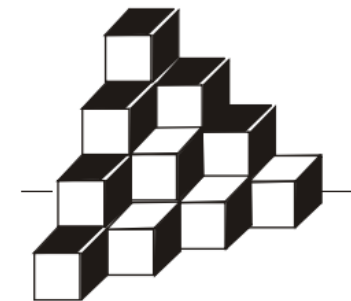
(SSC CGL 1<sup>st</sup> Sit. 2013)



Answer figure:



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



(SSC CGL 1<sup>st</sup> Sit. 2013)

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

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

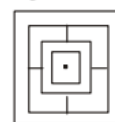


(SSC CGL 1<sup>st</sup> Sit. 2013)

- (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 1<sup>st</sup> Sit. 2013)

Question Figure:



Answer Figures:



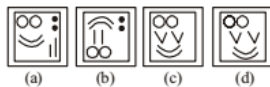
- (a) (b) (c) (d)

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

**Question Figure :**

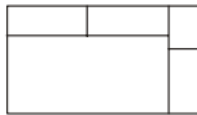


**Answer Figures.**



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

**Question figure :**



(SSC CHSL 2014)

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

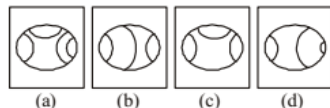
22. Among the for answer figures, which figure can be formed from the cut - pieces given below in the question figure ?

**Question figure :**



**Answer figures :**

(SSC CHSL 2014)

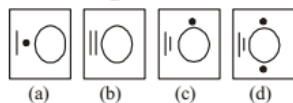


23. Find out which answer figure will exactly make up the question figure. (SSC CGL 1<sup>st</sup> Sit. 2014)

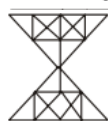
**Question figure :**



**Answer figures :**



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

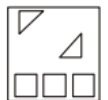


(SSC CGL 1<sup>st</sup> Sit.2014)

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

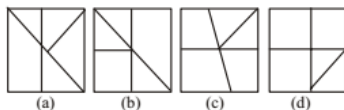
25. Identify the answer figure from which the pieces given in the question figure have been cut.

**Question Figure**

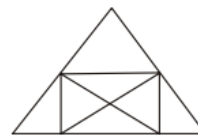


**Answer Figure**

(SSC CHSL 2015)



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



(SSC CHSL 2015)

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

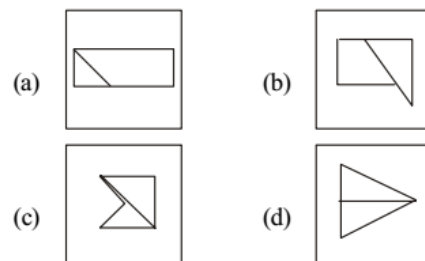
27. How many triangles are there in the figure ?



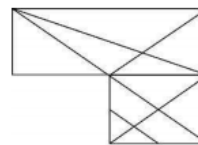
(SSC CGL 1<sup>st</sup> Sit. 2015)

- (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 1<sup>st</sup> Sit. 2015)



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



(SSC CGL 1<sup>st</sup> Sit. 2016)

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

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



(SSC CGL 1<sup>st</sup> Sit. 2016)

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

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

(SSC CGL 2017)

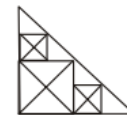
- (a) 20  
(b) 22  
(c) 28  
(d) 32



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

(SSC CGL 2017)

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

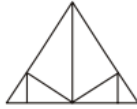


33. How many triangles are there in the given figure?  
(SSC CGL 2017)



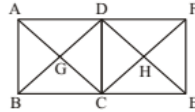
- (a) 14 (b) 15 (c) 17 (d) 18

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



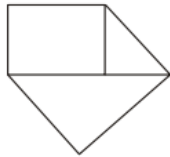
- (a) 10 (b) 11 (c) 12 (d) 13

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



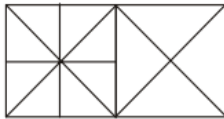
- (a) 16 (b) 18 (c) 8 (d) 12

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



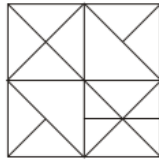
- (a) 2 (b) 3 (c) 4 (d) 5

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



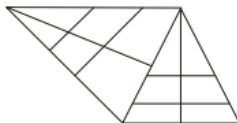
- (a) 24 (b) 26 (c) 28 (d) 30

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



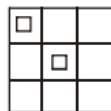
- (a) 34 (b) 32 (c) 36 (d) 24

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



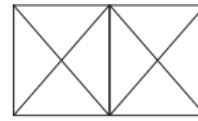
- (a) 20 (b) 18 (c) 16 (d) 22

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



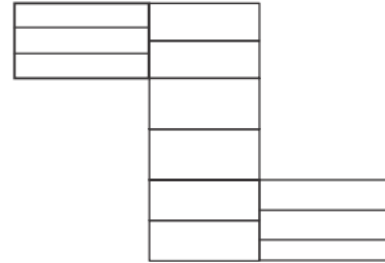
- (a) 12 (b) 14 (c) 18 (d) 16

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



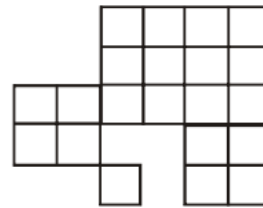
- (a) 10 (b) 18 (c) 16 (d) 14

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



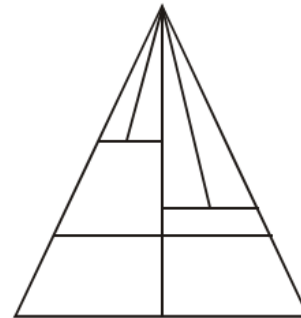
- (a) 34 (b) 30 (c) 32 (d) 33

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



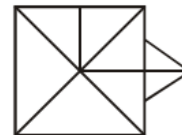
- (a) 29 (b) 33 (c) 32 (d) 34

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



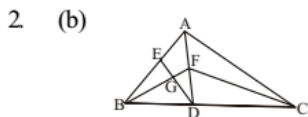
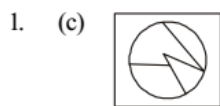
- (a) 12 (b) 8 (c) 11 (d) 15

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

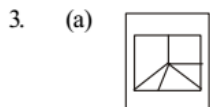


- (a) 16 (b) 15 (c) 17 (d) 14

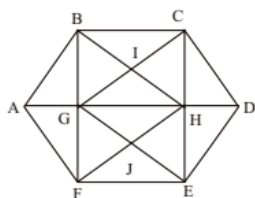
# Hints & Solutions



The triangles are :  
 $\triangle ABC$  ;  $\triangle ABD$  ;  $\triangle ADC$  ;  $\triangle AFC$  ;  
 $\triangle FDC$  ;  $\triangle AFB$  ;  $\triangle FDB$  ;  $\triangle FBC$  ;  
 $\triangle GBD$  ;  $\triangle ADE$  ;  $\triangle GBE$  ;  $\triangle FDG$  ;  
 $\triangle DBE$  ;



4. (c) The figure may be labelled as shown.



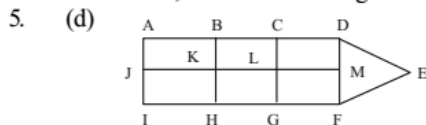
The simplest triangles are ABG, BIG, BIC, CIH, GIH, CDH, HED, GHJ, HJE, FEJ, GFJ and AGF i.e. 12 in number.

The triangles composed of two components each are ABF, CDE, GBC, BCH, GHG, BHG, GHF, GHE, HEF and GEF i.e. 10 in number.

The triangles composed of three components each are ABH, AFH, CDG and GDE i.e. 4 in number.

The triangles composed of four components each are BHF and CGE i.e. 2 in number.

Total number of triangles in the figure =  $12 + 10 + 4 + 2 = 28$ .  
 Thus, there are 28 triangles.



The rectangles are :

ABKJ ; JKHI ; BCLK ;

KLGH ; CDML ; LMFG ;

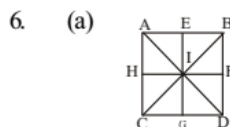
ACGI ; ACLJ ; JLGI ;

BDFH ; BDMK ; KMFH ;

ADFI ; ADMJ ; JMFI

ABHI, BCGH and CDFG are squares. We know that every square is a rectangle. But its reverse is not always true.

Note : By option only its easy to analyze.

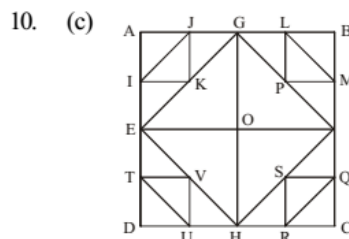


The triangles are :  
 $\triangle AIH$  ;  $\triangle AIE$  ;  $\triangle EIB$  ;  $\triangle BFI$  ;  
 $\triangle IHC$  ;  $\triangle IGC$  ;  $\triangle IGD$  ;  $\triangle DFI$  ;  
 $\triangle IAB$  ;  $\triangle IBD$  ;  $\triangle ICD$  ;  $\triangle IAC$  ;  
 $\triangle BAC$  ;  $\triangle ACD$  ;  $\triangle BDC$  ;  $\triangle BDA$   
 Total triangles = 16

7. (c) There are 28 triangles are formed in given figure.



9. (a)



There are 28 triangles are in the given figure —  
 EOH, EDH, OFH, HFC, EFD, OGF, GBF, GFH, AGE, EOG,  
 EGF, GEH, AJI, IKE, KGJ, IJK, LBM, PMF, GPL, LMP,  
 RQC, SRH, SFQ, SQR, DTU, EVT, TVU and VUH.

11. (c)

12. (a)

13. (a)



14. (d) All the components of question figure are present in the Answer Figure (d).

15. (c) It is difficult to balance the ball and the jar in the position as shown in Answer figure (c)

16. (c) All the components of Question Figure are present in Answer Figure (c)



17. (c) 10 cubes are visible and 10 cubes are hidden. Clearly, there is one column having four cubes.

There are two columns each having three cubes.

There are three columns, each having two cubes.

There are four columns, each having only one cube.

Thus, total number of cubes

=  $4 + 6 + 6 + 4 = 20$  cubes



18. (c)



There 14 triangles in the given figure. These are AHO, ACB, BHO, BAD, ABE, ABD, BAF, ABG, AOF, AFD, BOG, BGC, ADO and BOC.

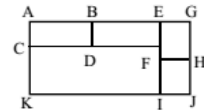
19. (a) All the components of the question figure are present in the Answer Figure (a).



20. (b) All the components of the Question Figure are present in the answer figure (b).



21. (d)

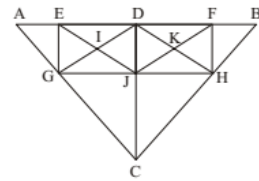


$\square ABCD$ ,  $\square BEDE$ ,  $\square EGFH$ ,  $\square FHJ$ ,  
 $\square AECF$ ,  $\square EGJ$ ,  $\square CFIK$ ,  $\square AGJK$ ,  $\square AEIK$

22. (d)

23. (c)

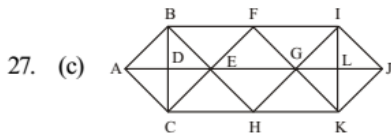
24. (c)



$\triangle ABC$ ,  $\triangle ADC$ ,  $\triangle DBC$ ,  $\triangle AEG$ ,  $\triangle BFH$   
 $\triangle EIG$ ,  $\triangle EID$ ,  $\triangle IGJ$ ,  $\triangle IDJ$ ,  
 $\triangle DKJ$ ,  $\triangle DFK$ ,  $\triangle KJH$ ,  $\triangle KFH$   
 $\triangle EDG$ ,  $\triangle DJG$ ,  $\triangle EGJ$ ,  $\triangle DJG$   
 $\triangle DFJ$ ,  $\triangle FHJ$ ,  $\triangle DHJ$ ,  $\triangle DFH$   
 $\triangle ADG$ ,  $\triangle DGH$ ,  $\triangle DBH$ ,  $\triangle JEF$   
 $\triangle GJC$ ,  $\triangle HJC$ ,  $\triangle GHC$  = 28 Triangles  
 $28 \times 2 = 56$  Triangles.

25. (d)

26. (b)

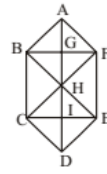


27. (c)

$\triangle ABD$ ,  $\triangle ADC$ ,  $\triangle BDE$ ,  $\triangle DEC$ ,  
 $\triangle ABC$ ,  $\triangle EBC$ ,  $\triangle ACE$ ,  $\triangle ABE$ ,  
 $\triangle BEF$ ,  $\triangle FIG$ ,  $\triangle CEH$ ,  $\triangle HGK$ ,  
 $\triangle FGE$ ,  $\triangle EGH$ ,  $\triangle GIL$ ,  $\triangle ILJ$ ,  
 $\triangle GLK$ ,  $\triangle LJK$ ,  $\triangle GIJ$ ,  $\triangle GKI$ ,  
 $\triangle GIK$ ,  $\triangle IJK$ ,  $\triangle BCH$ ,  $\triangle IHK$ ,  
 $\triangle BFC$ ,  $\triangle FIK$ ,  $\triangle FCK$ ,  $\triangle HBI$   
Total Triangles = 28

28. (c) 29. (d) 30. (c)

31. (b)

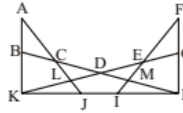


The Triangles are :

$\triangle ABG$ ,  $\triangle AGF$ ,  $\triangle ABF$ ,  $\triangle ABH$ ,  $\triangle AFH$ ,  $\triangle BGH$ ,  $\triangle BFH$ ,  $\triangle BFE$ ,  
 $\triangle BFC$ ,  $\triangle BHC$ ,  $\triangle BEC$ ,  $\triangle CHI$ ,  $\triangle CHE$ ,  $\triangle CFE$ ,  $\triangle CID$ ,  $\triangle CED$ ,  $\triangle DIE$ ,  
 $\triangle DHE$ ,  $\triangle FHE$ ,  $\triangle EIH$ ,  $\triangle FGH$  and  $\triangle DHC$  = 22 triangles.

32. (c) Total number of triangles = 37.

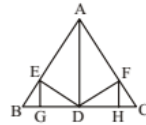
33. (c)



The Triangles are :

$\triangle ABC$ ,  $\triangle AKL$ ,  $\triangle AKJ$ ,  $\triangle BDK$ ,  $\triangle BHK$ ,  $\triangle KLM$ ,  $\triangle KIM$ ,  $\triangle KHG$ ,  $\triangle FGE$ ,  
 $\triangle FHM$ ,  $\triangle FHI$ ,  $\triangle CDL$ ,  $\triangle DEM$ ,  $\triangle MIH$ ,  $\triangle GDH$ ,  $\triangle CHJ$  and  $\triangle KEI$ .  
So, total triangles are 17.

34. (b)

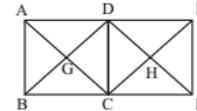


The triangles are :

$\triangle ABC$ ,  $\triangle ABD$ ,  $\triangle ADC$ ,  $\triangle AED$ ,  $\triangle AFD$ ,  $\triangle BEG$ ,  $\triangle BED$ ,  
 $\triangle GED$ ,  $\triangle DFC$ ,  $\triangle FHC$  and  $\triangle DFH$ .

$\therefore$  Total number of triangles = 11.

35. (b) According to figure,

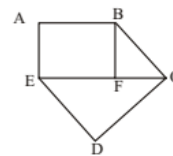


The triangles are :

$\triangle AGD$ ,  $\triangle AGB$ ,  $\triangle ADB$ ,  $\triangle ACF$ ,  $\triangle ABC$ ,  $\triangle ADC$ ,  
 $\triangle BGC$ ,  $\triangle BDC$ ,  $\triangle BDE$ ,  $\triangle DGC$ ,  $\triangle DHF$ ,  $\triangle DHC$ ,  
 $\triangle DCF$ ,  $\triangle DFC$ ,  $\triangle DFE$ ,  $\triangle CHE$ ,  $\triangle CFE$ ,  $\triangle FHE$

Thus, there are 18 triangles.

36. (a)

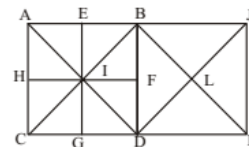


The quadrilaterals are :

ABFE and AECB

Thus, there are 2 quadrilaterals.

37. (b)

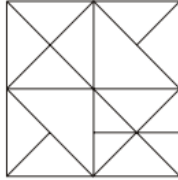


The triangles are :

$\triangle AIH$ ;  $\triangle AIE$ ;  $\triangle EIB$ ;  $\triangle BFI$ ;  
 $\triangle IHC$ ;  $\triangle IGC$ ;  $\triangle IGD$ ;  $\triangle DFI$ ;  
 $\triangle IAB$ ;  $\triangle IBD$ ;  $\triangle ICD$ ;  $\triangle IAC$ ;  
 $\triangle BAC$ ;  $\triangle ACD$ ;  $\triangle BDC$ ;  $\triangle BDA$ ;  
 $\triangle BLD$ ;  $\triangle LDK$ ;  $\triangle KLI$ ;  $\triangle ILB$ ;  
 $\triangle JBK$ ;  $\triangle BDK$ ;  $\triangle DBJ$ ;  $\triangle DKJ$ ;  
 $\triangle ADJ$ ;  $\triangle CBK$ .

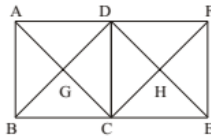
Thus, there are 26 triangles.

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,

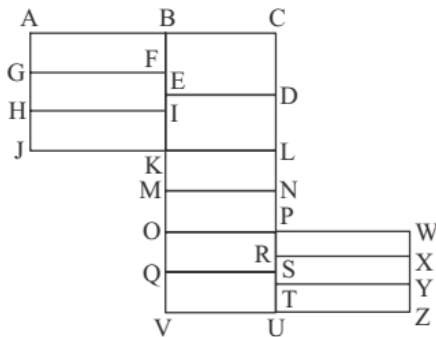


The triangles are :

$\triangle AGD$ ,  $\triangle AGB$ ,  $\triangle ADB$ ,  $\triangle ACF$ ,  $\triangle ABC$ ,  $\triangle ADC$ ,  
 $\triangle BGC$ ,  $\triangle BDC$ ,  $\triangle BDE$ ,  $\triangle DGC$ ,  $\triangle DHF$ ,  $\triangle DHC$ ,  
 $\triangle DCF$ ,  $\triangle DEC$ ,  $\triangle DFE$ ,  $\triangle CHE$ ,  $\triangle CFE$ ,  $\triangle FHE$

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

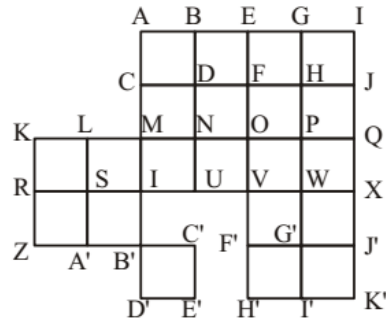
The rectangle composed of two components each are  $\Rightarrow$  ABHI, GFJK, BCKL, EDMN, KLOP, MNQS, OPVU, PWTY, RXUZ = 9

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 :

$ABCD$ ,  $BDFE$ ,  $EFHG$ ,  $GHII$ ,  $CMND$ ,  $DNOF$ ,  $FOPH$ ,  $HPQI$ ,  
 $KRSL$ ,  $LSIM$ ,  $MIUN$ ,  $NUVO$ ,  $OVWP$ ,  $PWXQ$ ,  $RZA'S$ ,  
 $A'SIB'$ ,  $VF'G'W$ ,  $G'WXJ'$ ,  $B'D'E'C'$ ,  $F'HT'G'$ ,  $G'TK'J'$

Square formed with four squares -

$AMOE$ ,  $EOQI$ ,  $CFVI$ ,  $FVXJ$ ,  $BNPG$ ,  $DUWH$ ,  $KZB'M$ ,  
 $VH'K'X$ ,  $OF'J'Q$

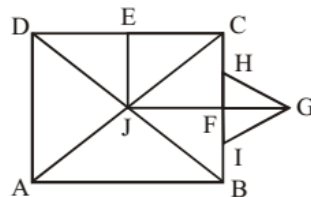
Square formed with nine squares -

$AGWI$ ,  $BUXI$

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

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

45. (b)



Triangles =  $\triangle ABD$ ,  $\triangle BCD$ ,  $\triangle ACD$ ,  $\triangle ABC$ ,  $\triangle ADJ$ ,  $\triangle ABJ$ ,  
 $\triangle ABCJ$ ,  $\triangle CDJ$ ,  $\triangle DEJ$ ,  $\triangle CEJ$ ,  $\triangle BFJ$ ,  $\triangle CFJ$ ,  $\triangle GHI$ ,  $\triangle FGH$ ,  
 $\triangle FGI$

Hence, total no. of triangles = 15





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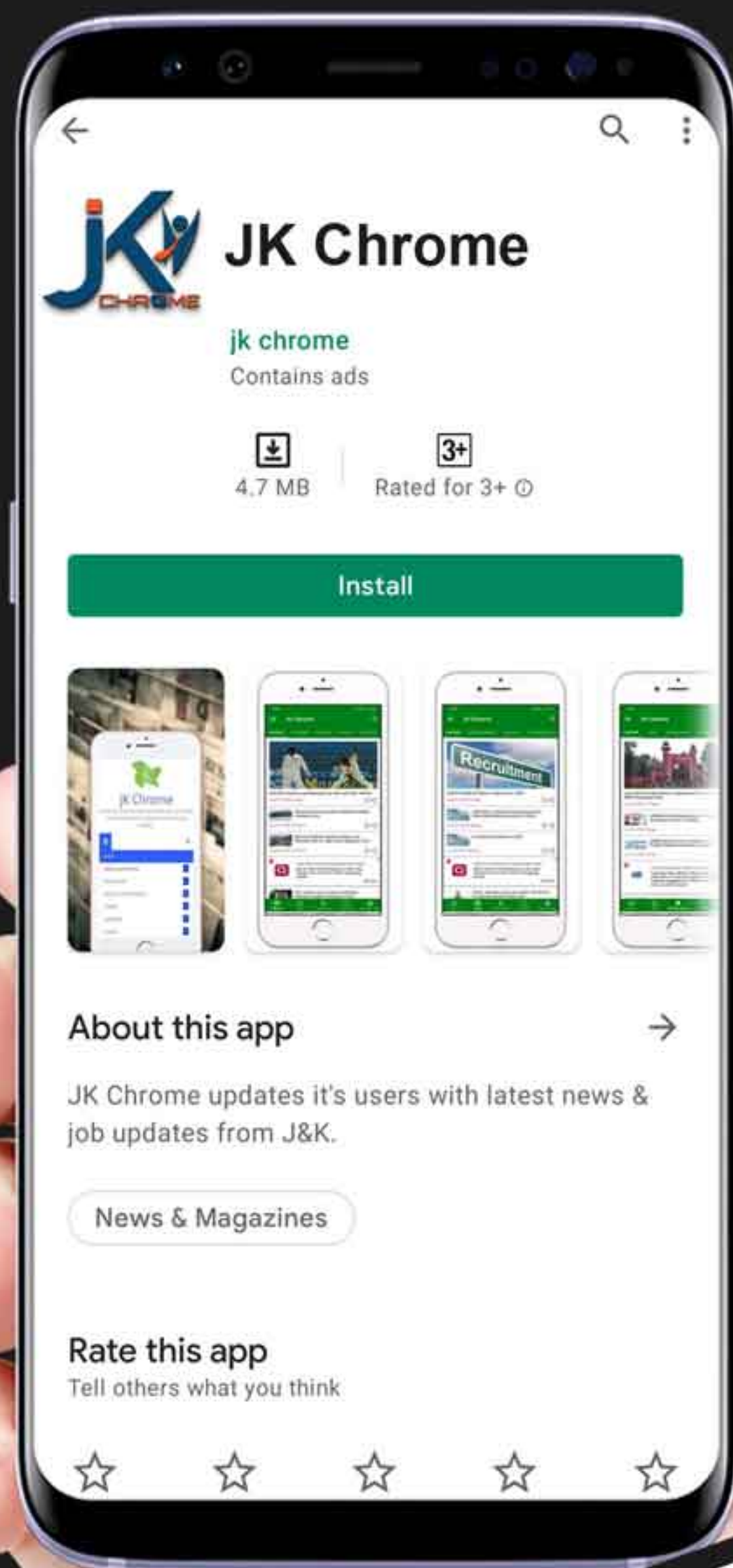
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