



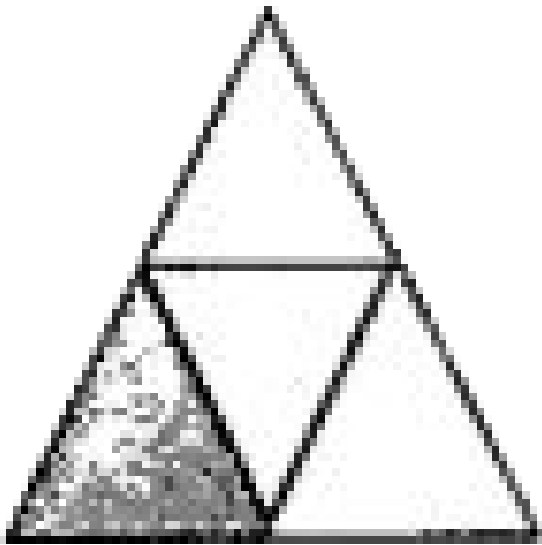
MATHS

BOOKS - SWAN PUBLICATION

FRACTIONS

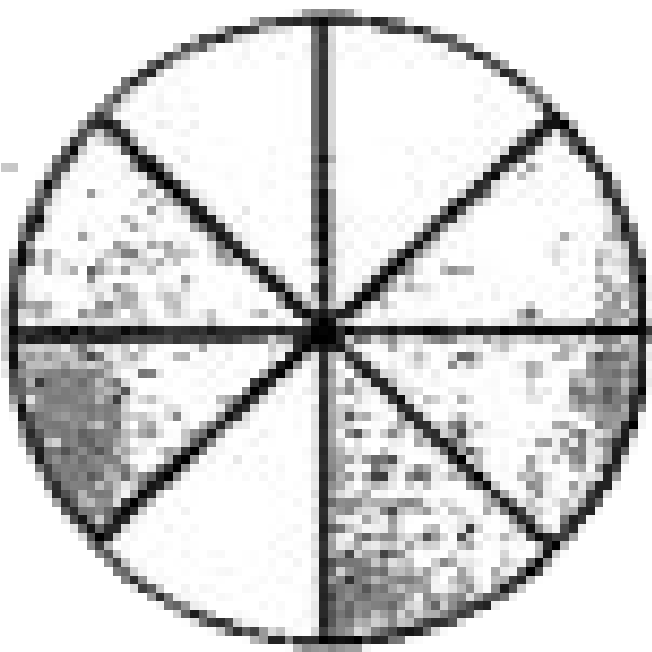
Exercise 5 1

1. Write the fraction representing the shaded portion.



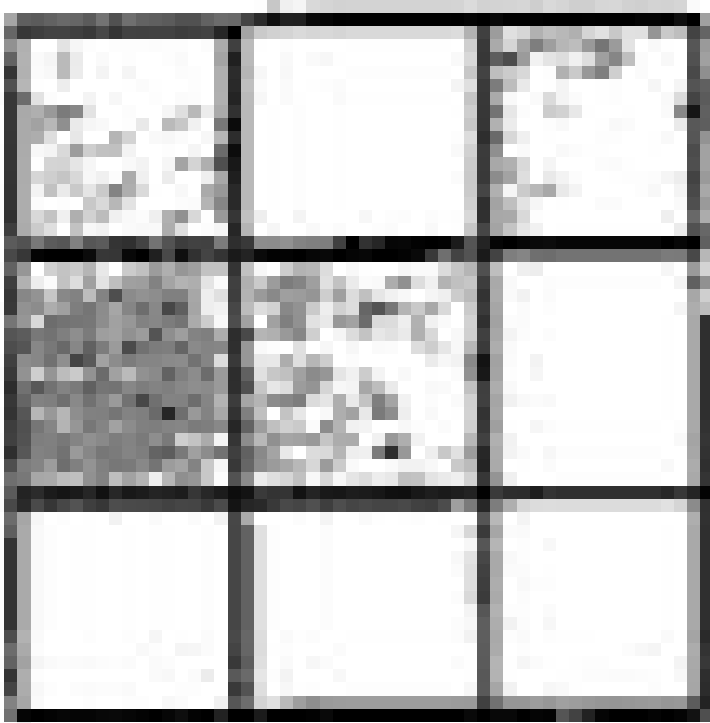
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2. Write the fraction representing the shaded portion.



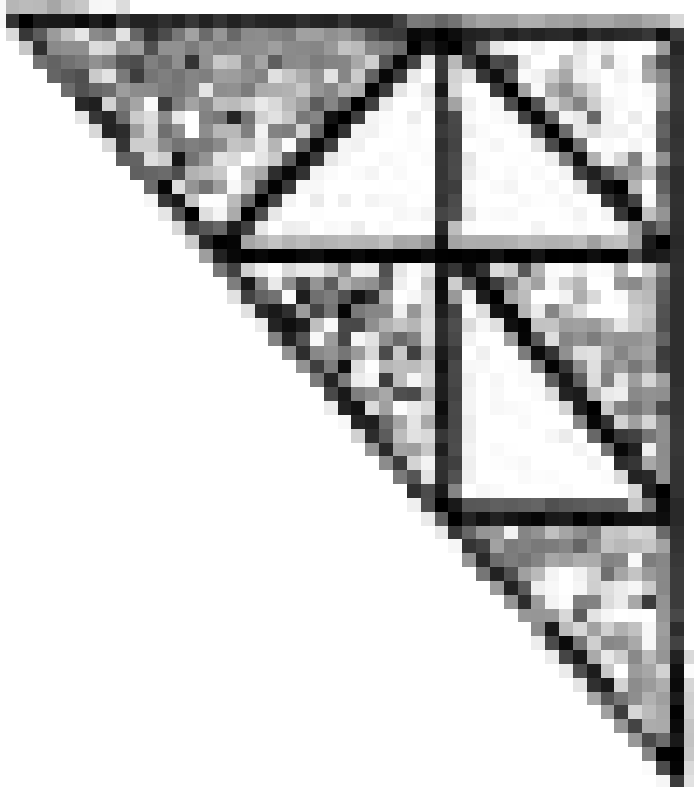
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3. Write the fraction representing the shaded portion.



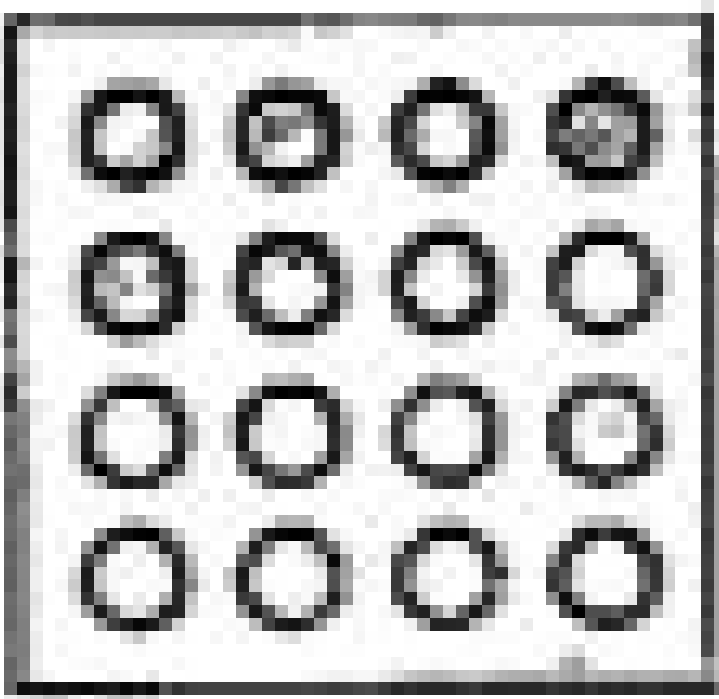
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4. Write the fraction representing the shaded portion.



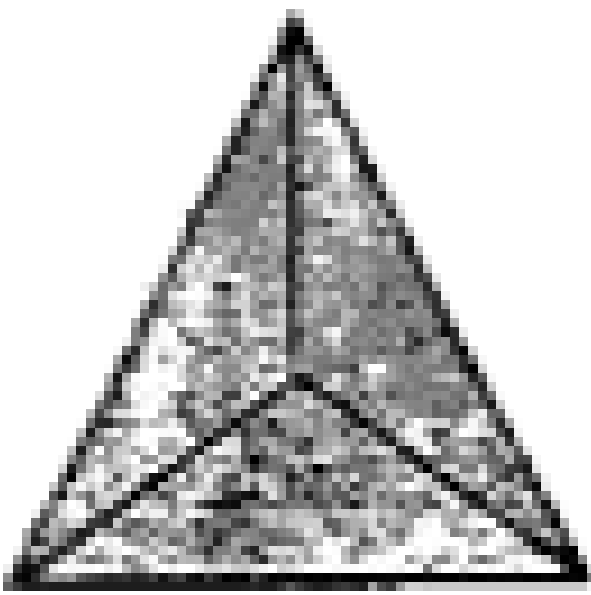
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5. Write the fraction representing the shaded portion.



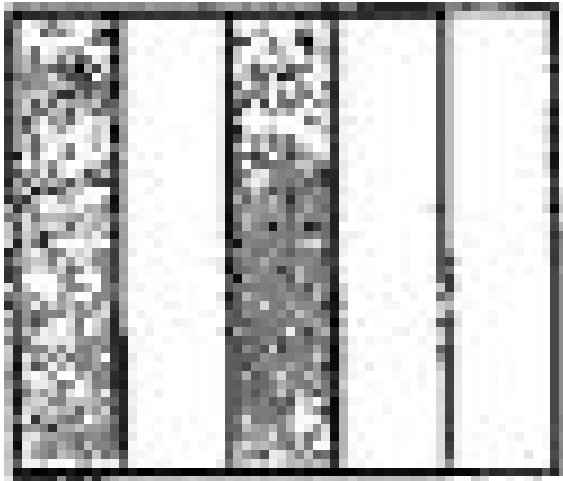
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6. Write the fraction representing the shaded portion.



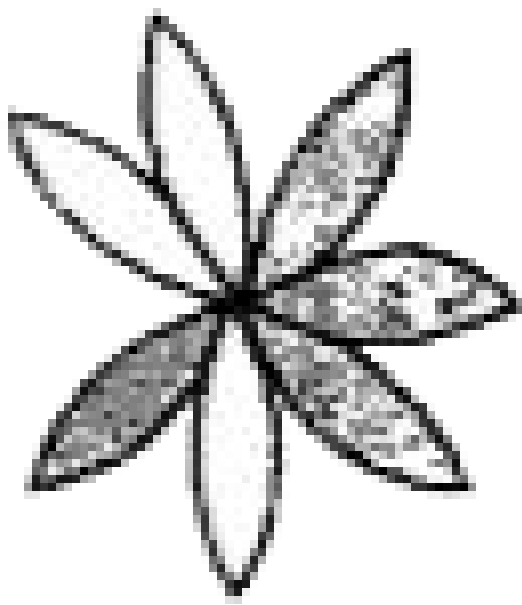
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7. Write the fraction representing the shaded portion.



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8. Write the fraction representing the shaded portion.



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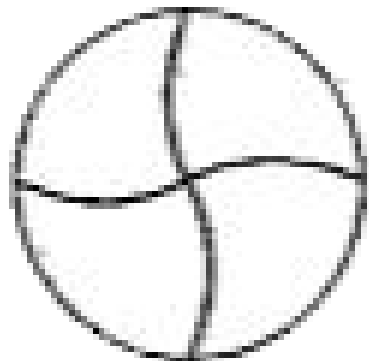
9. Colour the part according to the given fraction:

$$\frac{2}{8}$$



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10. Colour the part according to the given fraction:

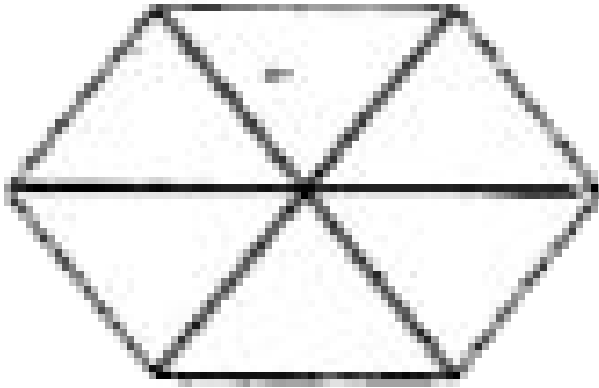


$$\frac{3}{4}$$



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11. Colour the part according to the given fraction:

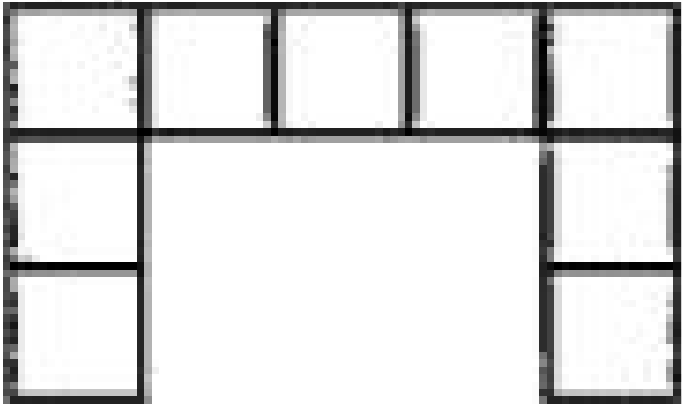


$$\frac{2}{6}$$



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12. Colour the part according to the given fraction:

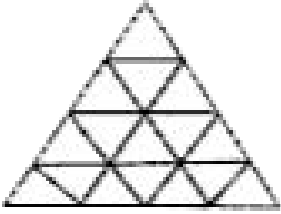


$\frac{1}{9}$



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13. Colour the part according to the given fraction:



$$\frac{11}{16}$$



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14. Write the fraction for each of the following:

Three -Fourth



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15. Write the fraction for each of the following:

Seven-Tenth



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16. Write the fraction for each of the following:

A Quarter



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17. Write the fraction for each of the following:

Five-Eighth



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18. Write the fraction for each of the following:

Three Twelveth



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19. Write the fraction for the followings:

numerator=5

denominator =9



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20. Write the fraction for the followings:

numerator=2

denominator =11



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21. Write the fraction for the followings:

numerator=6

denominator =7



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22. Write the numerator and the denominator

for the followings:

$$\frac{2}{3}$$



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23. Write the numerator and the denominator
for the followings:

$$\frac{1}{4}$$



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24. Write the numerator and the denominator
for the followings:

$$\frac{5}{11}$$



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25. Write the numerator and the denominator for the followings:

$$\frac{9}{13}$$



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26. Write the numerator and the denominator for the followings:

$$\frac{17}{16}$$



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27. Express:

1 day as a fraction of 1 week.



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28. Express:

40 seconds as a fraction of 1 minute.



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29. Express:

15 hours as a fraction of 1 day.



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30. Express:

2 months as a fraction of 1 year.



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31. Express:

45 cm as a fraction of 1 metre.



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32. Write the numbers from 1 to 25

What fraction of them are even numbers?



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33. Write the numbers from 1 to 25

What fraction of them are prime numbers?



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34. Write the numbers from 1 to 25

What fraction of them are multiples of 3?



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35. In class 6th, there are 24 boys and 18 girls. What fraction of total students represents boys and girls?



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36. A bag contains 6 red balls and 7 blue balls. What fraction of balls represent red and blue colour?



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37. Sidharth has a cake. He cuts it into 10 equal parts. He gave 2 parts to Naman, 3 parts to Nidhi, 1 part to Seema and the remaining four parts he kept for himself. Find

(i) What fraction of cake, he gave to Naman?

(ii) What fraction of cake, he give to Nidhi?

(iii) What fraction of cake, he gave to Nidhi?

(iv) Who has more cake than other?



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38. In a box, there are 12 apples, 7 oranges and 5 guavas. What fraction of fruits in box represents each?



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39. Dishmeet has 20 pens. He gives one fourth to Balkirat. How many pens Dishmeet and Balkirat have?



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40. Represent the following fraction on the number line?

$$\frac{2}{5}$$



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41. Represent the following numbers on the number line :

$$2/7$$



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42. Represent the following fraction on the number line?

$$\frac{3}{10}, \frac{5}{10}, \frac{1}{10}$$



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43. Represent the following fraction on the number line?

$$\frac{3}{8}, \frac{5}{8}, \frac{7}{8}$$



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44. Find:

$\frac{3}{5}$ of 20 books



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45. Find:

$\frac{5}{8}$ of 32 pens



Watch Video Solution

46. Find:

$\frac{1}{6}$ of 36 copies



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47. Find:

$\frac{4}{7}$ of 21 apples



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48. Find:

$\frac{3}{4}$ of 28 pencils



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49. Balkirat had a box of 36 erasers. He gave $\frac{1}{2}$ of them to Rani, $\frac{2}{9}$ of them to Yuvraj and keeps the rest.

(i) How many erasers does Rani get?

(ii) How many erasers does Yuvraj get ?

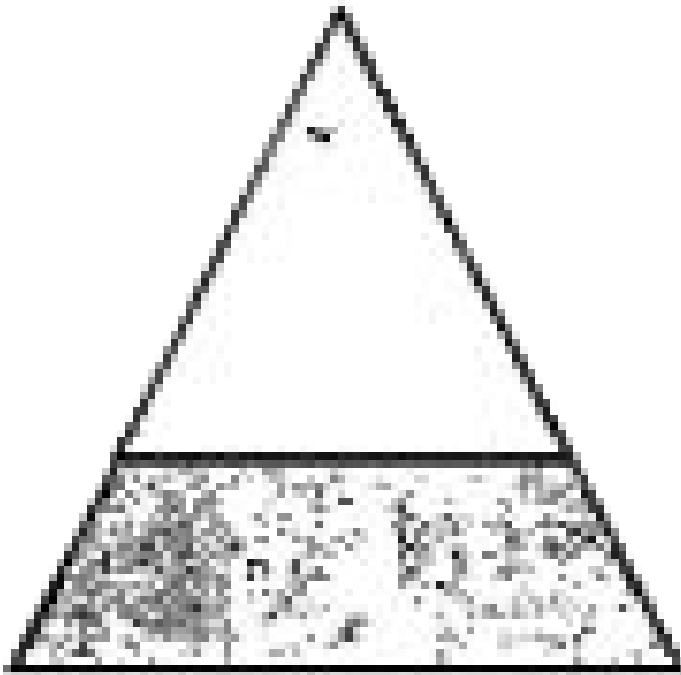
(iii) How many erasers does Balkirat keep?





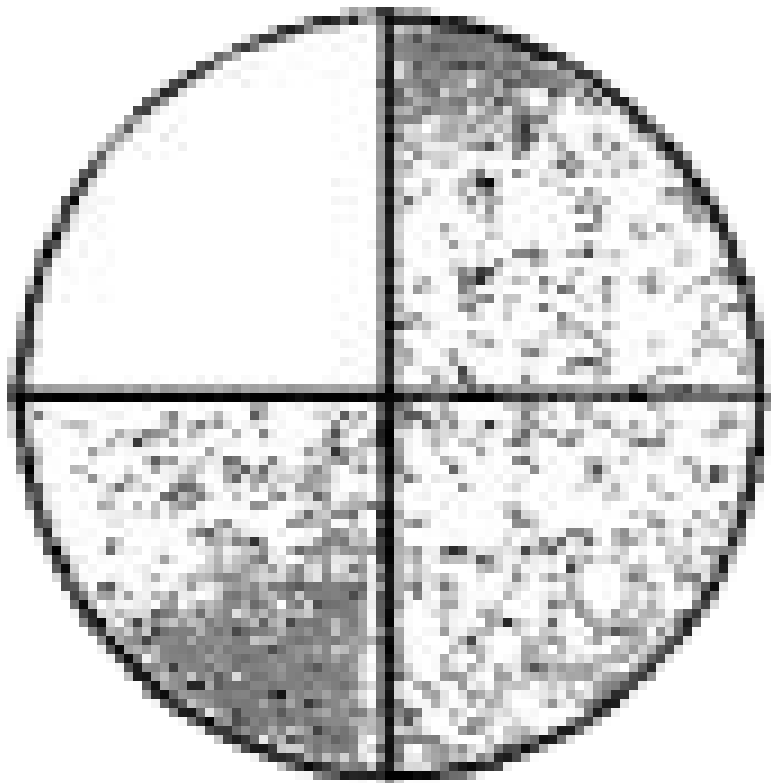
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50. State True/ False: This is $\frac{1}{2}$



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51. State True/ False:

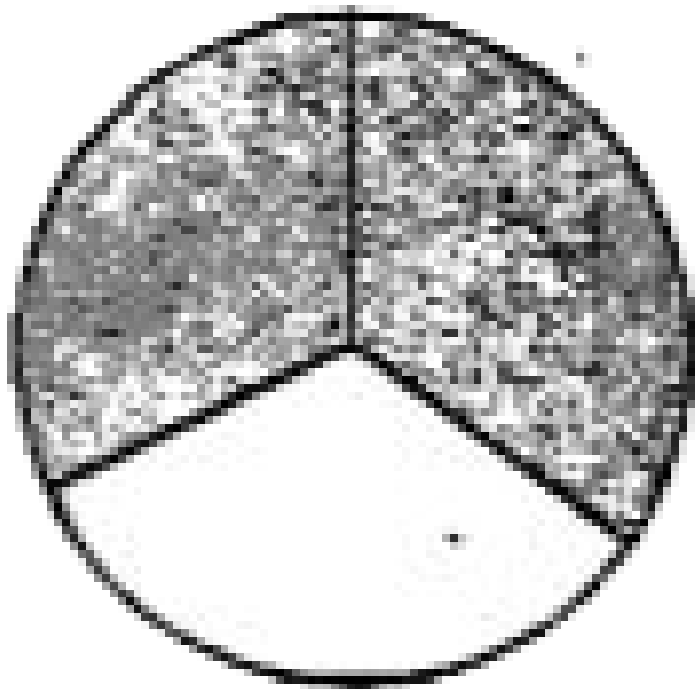


$$\frac{3}{4}$$



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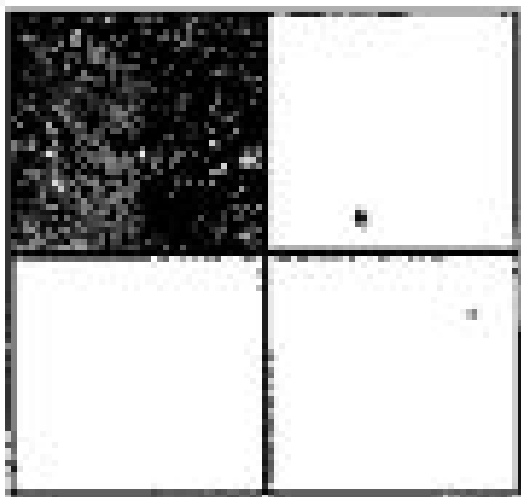
52. State True/ False:



$\frac{2}{3}$



53. State True/ False:



$$\frac{1}{4}$$

Exercise 5 2

1. Classify the following as proper and improper fractions:

$$\frac{5}{4}, \frac{9}{13}, \frac{6}{11}, \frac{3}{2}, \frac{5}{2}, \frac{6}{6}, \frac{7}{9}, \frac{2}{15}, \frac{4}{14}, \frac{7}{8}$$



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2. Express each of the following as mixed fractions, Also represent with diagrams.

$$\frac{27}{5}$$



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3. Express each of the following as mixed fractions, Also represent with diagrams.

$$\frac{13}{4}$$



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4. Express each of the following as mixed fractions, Also represent with diagrams.

$$\frac{43}{8}$$



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5. Express each of the following as mixed fractions, Also represent with diagrams.

$$\frac{51}{7}$$



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6. Express the following as mixed fractions:

$$\frac{20}{3}$$



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7. Express each of the following mixed fractions as improper fractions:

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



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8. Express each of the following mixed fractions as improper fractions:

$$5\frac{2}{7}$$



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9. Express each of the following mixed fractions as improper fractions:

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



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10. Express each of the following mixed fractions as improper fractions:

$$3\frac{3}{4}$$



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11. Express each of the following mixed fractions as improper fractions:

$$9\frac{5}{8}$$



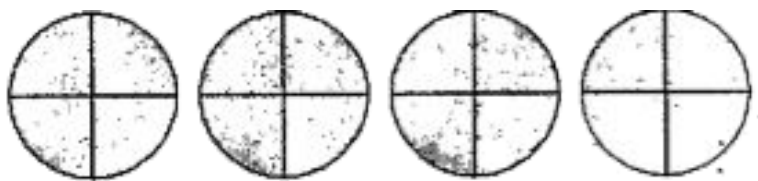
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12. Express the shaded portion as improper fraction and Mixed fraction:



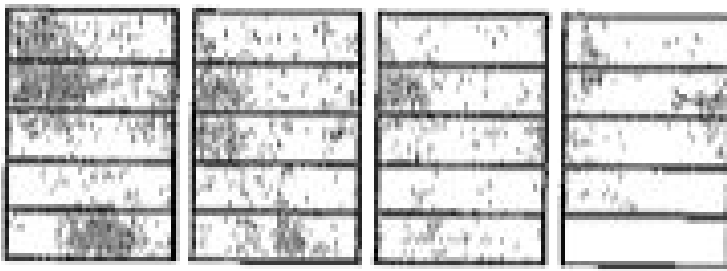
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13. Express the shaded portion as improper fraction and Mixed fraction:



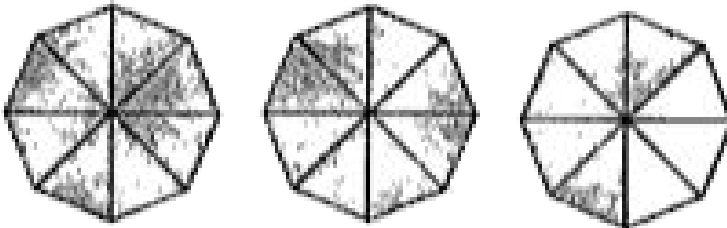
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14. Express the shaded portion as improper fraction and Mixed fraction:



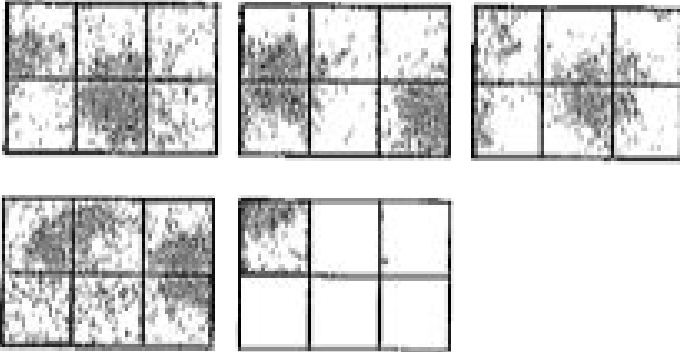
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15. Express the shaded portion as improper fraction and Mixed fraction:



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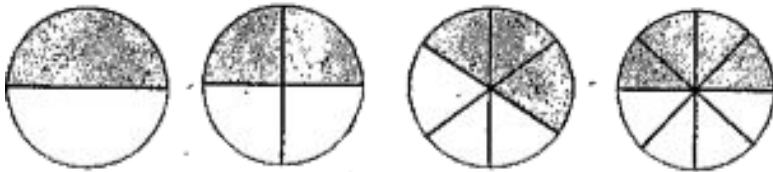
16. Express the shaded portion as improper fraction and Mixed fraction:



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Exercise 5 3

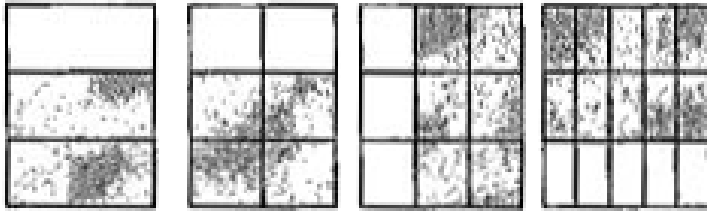
1. Write the fraction for the shaded part and check whether these fractions are equivalent or not?



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2. Write the fraction for the shaded part and check whether these fractions are equivalent

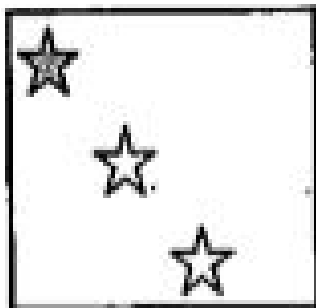
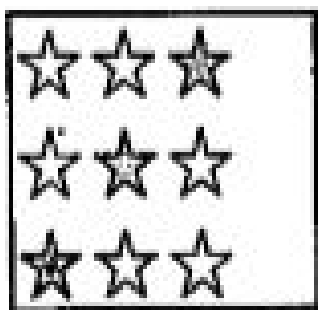
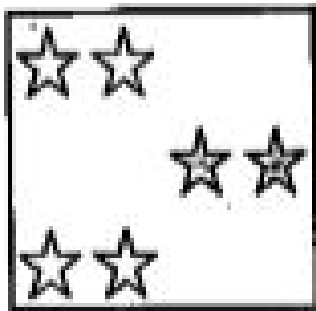
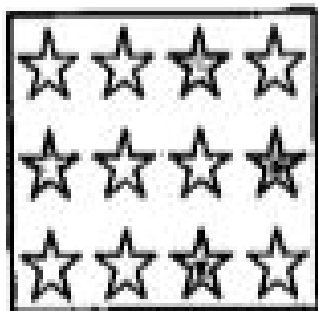
or not?



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3. Write the fraction for the shaded part and check whether these fractions are equivalent

or not?



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4. Find four equivalent fractions of the followings:

$$\frac{1}{4}$$



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5. Find four equivalent fractions of the followings:

$$\frac{3}{5}$$



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6. Find four equivalent fractions of the followings:

$$\frac{7}{9}$$



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7. Find four equivalent fractions of the followings:

$$\frac{5}{11}$$



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8. Find four equivalent fractions of the followings:

$$\frac{2}{3}$$



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9. Write the lowest equivalent fraction (simplest form) of

$$\frac{10}{25}$$



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10. Write the lowest equivalent fraction (simplest form) of

$$\frac{27}{54}$$



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11. Write the lowest equivalent fraction (simplest form) of

$$\frac{48}{72}$$



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12. Write the lowest equivalent fraction (simplest form) of

$$\frac{150}{60}$$



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13. Write the lowest equivalent fraction (simplest form) of

$$\frac{162}{90}$$



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14. Are the following fractions equivalent or not?

$$\frac{5}{12}, \frac{25}{60}$$



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15. Are the following fractions equivalent or not?

$$\frac{6}{7}, \frac{36}{42}$$



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16. Are the following fractions equivalent or not?

$$\frac{7}{9}, \frac{56}{72}$$



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17. Replace \square in each of the following by the correct number:

$$\frac{2}{7} = \frac{12}{\square}$$



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18. Replace \square in each of the following by the correct number:

$$\frac{5}{8} = \frac{35}{\square}$$



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19. Replace \square in each of the following by the correct number:

$$\frac{24}{36} = \frac{6}{\square}$$



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20. Replace \square in each of the following by the correct number:

$$\frac{30}{48} = \frac{\square}{8}$$



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21. Replace \square in each of the following by the correct number:

$$\frac{7}{4} = \frac{42}{\square}$$



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22. Find the equivalent fraction of $\frac{3}{5}$, having numerator 18



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23. Find the equivalent fraction of $\frac{3}{5}$ having denominator 20.



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24. Find the equivalent fraction of $\frac{3}{5}$, having numerator 24



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25. Find the equivalent fraction of $\frac{24}{40}$, having numerator 6



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26. Find the equivalent fraction of $\frac{24}{40}$, having numerator 48



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27. Find the equivalent fraction of $\frac{24}{40}$, having denominator 20



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Exercise 5 4

1. Find the different set of like fractions:

$$\frac{3}{7}, \frac{5}{11}, \frac{2}{7}, \frac{6}{13}, \frac{3}{11}, \frac{1}{11}, \frac{2}{13}, \frac{5}{13}, \frac{6}{7}, \frac{10}{13}$$



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2. Write any three like fractions of:

$$\frac{2}{5}$$



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3. Write any three like fractions of:

$$\frac{1}{4}$$



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4. Write any three like fractions of:

$$\frac{11}{6}$$



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5. Encircle unit fractions:

$$\frac{6}{11}, \frac{2}{3}, \frac{1}{8}, \frac{15}{7}, \frac{1}{9}, \frac{1}{7}, \frac{3}{3}$$



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6. Fill in the boxes with $>$, $<$ or $=$

$$\frac{4}{7} \square \frac{6}{7}$$



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7. Fill in the boxes with $>$, $<$ or $=$

$$\frac{4}{5} \square \frac{3}{5}$$



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8. Fill in the boxes with $>$, $<$ or $=$

$$\frac{7}{8} \square \frac{0}{8}$$



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9. Fill in the boxes with $>$, $<$ or $=$

$$\frac{2}{3} \square \frac{5}{3}$$



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10. Fill in the boxes with $>$, $<$ or =

$$\frac{5}{13} \square \frac{7}{13}$$



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11. Compare using $>$, $<$ or =

$$\frac{5}{7} \square \frac{5}{9}$$



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12. Compare using $>$, $<$ or $=$

$$\frac{1}{3} \square \frac{1}{2}$$



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13. Compare using $>$, $<$ or $=$

$$\frac{6}{11} \square \frac{6}{13}$$



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14. Compare using $>$, $<$ or $=$

$$\frac{11}{12} \square \frac{11}{17}$$



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15. Compare using $>$, $<$ or $=$

$$\frac{7}{13} \square \frac{7}{10}$$



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16. Comparing using $>$, $<$ or $=$

$$\frac{5}{6} \square \frac{2}{5}$$



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17. Comparing using $>$, $<$ or $=$

$$\frac{3}{4} \square \frac{1}{3}$$



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18. Comparing using $>$, $<$ or $=$

$$\frac{3}{7} \square \frac{5}{9}$$



Watch Video Solution

19. Comparing using $>$, $<$ or $=$

$$\frac{7}{10} \square \frac{4}{5}$$



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20. Comparing using $>$, $<$ or $=$

$$\frac{7}{7} \square 1$$



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21. Arrange the following fractions in ascending order:

$$\frac{7}{10}, \frac{3}{10}, \frac{5}{10}$$



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22. Arrange the following fractions in ascending order:

$$\frac{6}{7}, \frac{1}{7}, \frac{4}{7}$$



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23. Arrange the following fractions in ascending order:

$$\frac{5}{8}, \frac{7}{8}, \frac{1}{8}, \frac{3}{8}$$



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24. Arrange the following fractions in ascending order:

$$\frac{5}{7}, \frac{5}{9}, \frac{5}{3}$$



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25. Arrange the following fractions in ascending order:

$$\frac{3}{11}, \frac{3}{7}, \frac{3}{13}$$



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26. Arrange the following fractions in ascending order:

$$\frac{5}{8}, \frac{7}{8}, \frac{1}{8}, \frac{3}{8}$$



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27. Arrange the following fractions in descending order:

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



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28. Arrange the following fractions in

descending order:

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



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29. Arrange the following fractions in

descending order:

$$\frac{5}{9}, \frac{7}{9}, \frac{1}{9}$$



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30. Arrange the following fractions in descending order:

$$\frac{3}{11}, \frac{5}{11}, \frac{2}{11}, \frac{7}{11}$$



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31. Arrange the following fractions in descending order:

$$\frac{2}{7}, \frac{2}{13}, \frac{2}{9}$$



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32. Arrange the following fractions in descending order:

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



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33. Arrange the following fractions in descending order:

$$\frac{1}{6}, \frac{5}{12}, \frac{5}{18}, \frac{2}{3}$$



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34. Arrange the following fractions in descending order:

$$\frac{3}{4}, \frac{9}{20}, \frac{11}{15}, \frac{17}{30}$$



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35. Kasvi covered $\frac{1}{3}$ of her journey by car $\frac{1}{5}$ by rickshaw and $\frac{2}{15}$ on foot. Find by which means she covered the major part of her journey.



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36. Father distributed his property among his three sons. The eldest son got $\frac{3}{10}$, the middle son got $\frac{1}{6}$ and the youngest got $\frac{1}{5}$ part of the property. State how the property was distributed in ascending order.



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Exercise 5 5

1. Add the following:

$$\frac{3}{7} + \frac{2}{7}$$



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2. Add the following:

$$\frac{2}{11} + \frac{4}{11}$$



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3. Add the following:

$$\frac{6}{13} + \frac{5}{13}$$



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4. Add the following:

$$\frac{5}{14} + \frac{9}{14} + \frac{3}{14}$$



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5. Add the following:

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



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6. Add the following:

$$\frac{1}{6} + \frac{5}{12}$$



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7. Add the following:

$$\frac{3}{10} + \frac{4}{15}$$



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8. Add the following:

$$\frac{3}{8} + \frac{1}{4}$$



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9. Add the following:

$$\frac{5}{9} + 4$$



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10. Add the following:

$$\frac{4}{7} + \frac{2}{3} + \frac{5}{21}$$



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11. Add the following:

$$\frac{3}{4} + \frac{7}{12} + \frac{2}{3}$$



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12. Add the following:

$$\frac{3}{5} + \frac{1}{3}$$



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13. Subtract the following:

$$\frac{5}{9} - \frac{2}{9}$$



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14. Subtract the following:

$$\frac{6}{17} - \frac{3}{17}$$



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15. Subtract the following:

$$\frac{7}{10} - \frac{3}{10}$$



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16. Subtract the following:

$$\frac{11}{13} - \frac{6}{13} - \frac{2}{13}$$



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17. Subtract the following:

$$\frac{5}{12} - \frac{1}{4}$$



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18. Subtract the following:

$$\frac{5}{9} - \frac{2}{9}$$



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19. Subtract the following:

$$\frac{6}{7} - \frac{2}{3}$$



Watch Video Solution

20. Subtract the following:

$$\frac{5}{6} - \frac{1}{4}$$



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21. Subtract the following:

$$\frac{6}{7} - \frac{2}{3}$$



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22. Subtract the following:

$$2 - \frac{1}{7}$$



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23. Subtract the following:

$$\frac{13}{7} - \frac{3}{4} - \frac{1}{14}$$



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24. Subtract the following:

$$\frac{17}{24} - \frac{5}{16} - \frac{1}{3}$$



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25. Simplify the following :

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



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26. Simplify the following :

$$5\frac{3}{4} + 2\frac{1}{6}$$



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27. Simplify the following :

$$6\frac{1}{2} + 2\frac{2}{3}$$



[Watch Video Solution](#)

28. Simplify the following :

$$4\frac{3}{4} - 1\frac{5}{6}$$



[Watch Video Solution](#)

29. Simplify the following :

$$2\frac{7}{10} - 1\frac{2}{15}$$



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30. Simplify the following :

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



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31. Simplify the following :

$$7 + \frac{7}{4} + 5\frac{1}{6}$$



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32. Simplify the following :

$$2\frac{1}{8} + 1\frac{1}{2} - \frac{7}{16}$$



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33. Simplify the following :

$$5\frac{2}{3} + 6 - \frac{31}{4}$$



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34. Simplify the following :

$$2 - \frac{7}{16}$$



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35. Simplify the following :

$$6 + 1\frac{1}{2}$$



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36. Simplify the following :

$$2\frac{5}{2} - 3\frac{5}{8} + 2$$



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37. An iron pipe of length $6\frac{2}{3}$ metres long was cut into two pieces. One piece is $4\frac{3}{7}$ metre long. What is the length of other piece?



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38. Ashok bought $\frac{7}{10}$ kg of mangoes and Tarun $\frac{11}{15}$ kg of apples. How much fruit did he buy in all?



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39. Avi did $\frac{3}{5}$ of his homework on Saturday and $\frac{1}{10}$ of the same homework on Sunday.

How much of the homework did he do over the weekend?



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40. Charan spent $\frac{1}{4}$ of his pocket money on a movie and $\frac{3}{8}$ on a new pen and $\frac{1}{8}$ on a pencil.

What fraction of his pocket money did he spend?



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41. Simar lives at a distance of 4 km from the school. Prjabhjot lives at a distance of $\frac{2}{3}$ km less than simar's distance from the school. How far does prabhjot live from the school?



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Exercise 5 6

1. Multiply:

$$\frac{1}{5} \times 4$$



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2. Multiply:

$$\frac{2}{7} \times 3$$



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3. Multiply:

$$\frac{5}{8} \times 2$$



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4. Multiply:

$$\frac{7}{12} \times 4$$



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5. Multiply:

$$10 \times \frac{4}{5}$$



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6. Divide:

$$\frac{1}{4} \div 5$$



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7. Divide:

$$\frac{3}{5} \div 3$$



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8. Divide:

$$\frac{5}{8} \div 3$$



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9. Divide:

$$\frac{6}{7} \div 2$$



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10. Divide:

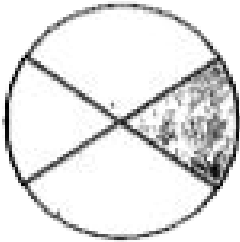
$$\frac{12}{15} \div 6$$



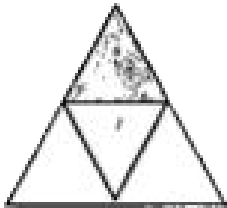
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[Multiple Choice Questions](#)

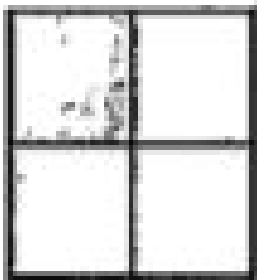
1. Which of the following does not represent any fraction?



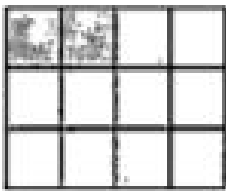
A.



B.



C.



D.

Answer: A



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2. Which of the following is a proper fraction?

A. $\frac{5}{5}$

B. $\frac{12}{11}$

C. $\frac{7}{9}$

D. 7

Answer: C



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3. Which of the following is an improper fraction?

A. $\frac{5}{8}$

B. $2\frac{3}{4}$

C. $\frac{7}{11}$

D. $\frac{15}{16}$

Answer: B



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4. The fractions having 1 as numerator are called.....fractions.

A. Like

B. Unlike

C. Unit

D. Proper

Answer: C



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5. The fractions having same denominators are called.....fractions.

A. Proper

B. Unit

C. Improper

D. Like

Answer: D



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6. The fraction having different denominators are called.....fractions.

A. Unlike

B. Like

C. Improper

D. Unit

Answer: A



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7. Express 8 hours as a fraction of 1 day.

A. $\frac{2}{3}$

B. $\frac{1}{3}$

C. $\frac{8}{1}$

D. $\frac{1}{8}$

Answer: B



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8. Find : $\frac{2}{5}$ of Rs. 20

A. Rs. 8

B. Rs. 10

C. Rs. 12

D. Rs. 40

Answer: A



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9. Write $\frac{19}{4}$ as mixed fraction

A. $3\frac{4}{5}$

B. $4\frac{4}{3}$

C. $4\frac{3}{4}$

D. $5\frac{1}{4}$

Answer: C



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10. $7\frac{2}{3} = \dots\dots$

A. $\frac{17}{3}$

B. $\frac{23}{3}$

C. $\frac{13}{3}$

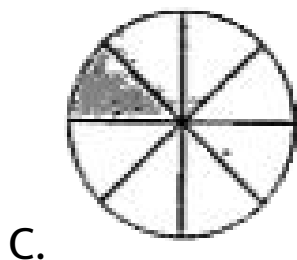
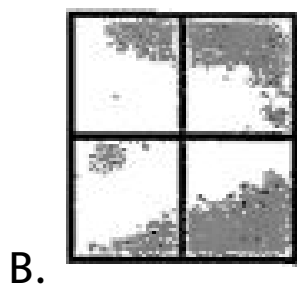
D. $\frac{42}{3}$

Answer: B

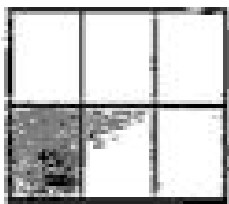


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11. Which of the following diagram represents an improper fraction?



D.



Answer: B



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12. Which of the following fraction is an equivalent of $\frac{5}{7}$?

A. $\frac{25}{49}$

B. $\frac{20}{35}$

C. $\frac{35}{49}$

D. $\frac{35}{48}$

Answer: C



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13. Replace \square by the correct number is

$$\frac{5}{8} = \frac{20}{\square}$$

A. 32

B. 24

C. 40

D. 16

Answer: A



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14. Which of the following are in ascending order ?

A. $\frac{2}{3}, \frac{2}{7}, \frac{2}{5}$

B. $\frac{2}{3}, \frac{2}{5}, \frac{2}{7}$

C. $\frac{2}{7}, \frac{2}{3}, \frac{2}{5}$

D. $\frac{2}{7}, \frac{2}{5}, \frac{2}{3}$

Answer: D



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15. Which of the following are in descending order?

A. $\frac{1}{8}, \frac{1}{3}, \frac{1}{9}$

B. $\frac{1}{3}, \frac{1}{8}, \frac{1}{9}$

C. $\frac{1}{8}, \frac{1}{9}, \frac{1}{3}$

D. $\frac{1}{3}, \frac{1}{9}, \frac{1}{8}$

Answer: B



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16. $\frac{4}{6} + \frac{3}{6} = \dots$

A. $\frac{7}{12}$

B. $\frac{7}{8}$

C. $\frac{7}{6}$

D. $1\frac{1}{12}$

Answer: C



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17. $\frac{4}{9} + \frac{5}{9} - \frac{2}{9} = \dots$

A. $\frac{7}{9}$

B. $\frac{7}{18}$

C. $\frac{11}{9}$

D. $\frac{5}{9}$

Answer: A



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18. $\frac{2}{3} + \frac{1}{6} = \dots\dots$

A. $\frac{3}{9}$

B. $\frac{5}{6}$

C. $\frac{7}{6}$

D. $\frac{5}{9}$

Answer: B



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19. $4 - \frac{1}{3} = \dots\dots\dots$

A. $4\frac{1}{3}$

B. $3\frac{1}{3}$

C. $4\frac{2}{3}$

D. $3\frac{2}{3}$

Answer: D



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20. Divide $\frac{1}{6}$ by 2

A. $\frac{1}{3}$

B. $\frac{1}{12}$

C. $\frac{1}{18}$

D. 12

Answer: B



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