

class 4

Charan and Kiran have 169 stickers. Kiran and Anand have 100 stickers. 2

Anand has $\frac{2}{5}$ as many stickers as Charan. How many stickers does each of them have ?





- 3 units _____ 169 100 = 69
- 1 unit \longrightarrow 69 \div 3 = 23
- 2 units \longrightarrow 2 × 23 = 46
- 100 46 = 54

Charan has 115 stickers, Anand has 46 stickers and Kiran has 54 stickers







2 The members of a chess club consist of children and adults. $\frac{3}{5}$ of the members are girls and $\frac{1}{2}$ of the remainder are boys. 148 members are women and the number of men



is $\frac{3}{4}$ that of the number of women. How many more girls than adults are there in the chess club ?









Saloni baked some muffins and cupcakes. She gave $\frac{1}{2}$ of her muffins away and sold $\frac{3}{10}$ of her cupcakes. She then had an equal number of muffins and cupcakes left. If she sold 60 cupcakes, how many muffins and cupcakes did she bake ?













Arrange the following fractions in increasing order.



Compare the fractions two at a time. We compare $\frac{8}{9}$ and $\frac{15}{17}$ first. 9 × 17 is a common multiple of 9 and 17. (Do not multiply)

 $\frac{8}{9} = \frac{8 \times 17}{9 \times 17} \text{ and } \frac{15}{17} = \frac{15 \times 9}{17 \times 9}$ $9 \times 17 = 17 \times 9$ $8 \times 17 = 136$ $15 \times 9 = 135$ $\frac{8}{9} = \frac{136}{9 \times 17} \text{ and } \frac{15}{17} = \frac{135}{9 \times 17}$ So, $\frac{8}{9}$ is bigger than $\frac{15}{17}$ Now, consider $\frac{8}{9}$ and $\frac{17}{20}$ $\frac{8}{9} = \frac{8 \times 20}{9 \times 20} \text{ and } \frac{17}{20} = \frac{17 \times 9}{20 \times 9}$ $8 \times 20 = 160$ $17 \times 9 = 153$ $\frac{8}{9} \text{ is bigger than } \frac{17}{20}$

Consider $\frac{15}{17}$ and $\frac{17}{20}$ $\frac{15}{17} = \frac{15 \times 20}{17 \times 20} \& \frac{17}{20} = \frac{17 \times 17}{20 \times 17}$ $15 \times 20 = 300$ $17 \times 17 = 289$ $\frac{15}{17}$ is bigger than $\frac{17}{20}$ The required order is: $\frac{17}{20}, \frac{15}{17}, \frac{8}{9}$







Mrs Keerthi had some stickers. She gave half of the number of stickers and half a sticker to Sunny, $\frac{1}{2}$ of the remainder and half a sticker to Tom and $\frac{1}{2}$ of what

was left and half a sticker to Tina. She had 3 stickers left. How many stickers



did Mrs Keerthi have at first ? (Hint : All pupils received whole number of stickers. The answer is between 20 and 35)

(A) 20 (B) 31 (C) 30 (D) 35









Unit A : 3 + $\frac{1}{2}$ = $3\frac{1}{2}$ stickers

Unit B : $3\frac{1}{2} + 3\frac{1}{2} + \frac{1}{2} = 7\frac{1}{2}$ stickers

Unit C :
$$7\frac{1}{2} + 7\frac{1}{2} + \frac{1}{2} = 15\frac{1}{2}$$
 stickers

$$15\frac{1}{2} + 15\frac{1}{2} = 31$$

Keerthi had 31 stickers at first

NOTE: You may guess your answer by noting that it CANNOT be an even number. This is because if it is an even number, half of the number will be a whole number. And a whole number plus a half will not be a whole number.







Mrs Chandrika had ₹ 360. She spent

 $\frac{1}{4}$ of her money on a dress and $\frac{2}{3}$ of

her remaining money on a handbag. She then bought 2 watches at ₹ 15.90 each. How much money did she have left ?



4 units → ₹ 360

Number of units spent on the dress = 1

Number of units left after spending on the dress = 4 - 1 = 3

Number of units spent on the handbag = 2

Number of units left after spending on the handbag = 4 - 1 - 2 = 1

1 unit ____ ₹ 360 ÷ 4 = ₹ 90

Cost of 2 watches

= ₹ 15.90 + ₹ 15.90 = ₹ 31.80

₹ 90 – ₹ 31.80 = ₹ 58.20

She had ₹ 58.20 left

