

TAPE DIAGRAM PROBLEMS

Part Whole (Addition and Subtraction)

- 134 boys and 119 girls took part in an art competition. How many children took part in the competition?
- 253 children took part in an art competition. If there were 134 boys, how many girls were there?

Comparison (Addition and Subtraction)

- Mary saved \$184 and Betty saved \$121. How much less than Mary did Betty save?
- Betty saved \$121. She saved \$63 less than Mary. How much did Mary save?
- Mary saved \$184. Betty saved \$63 less than Mary. How much did Betty save?
- Mary and Betty saved \$305 altogether. Mary saved \$184. How much did Betty save?

Part Whole (Multiplication and Division)

- 5 children shared the cost of a present equally. Each of them paid \$6. What was the cost of the present?
- 5 children bought a present for \$30. They shared the cost equally. How much did each child pay?
- A group of children bought a present for \$60. They each paid \$12. How many children were there in the group?
- 328 grams of flour is mixed with 256 grams of sugar for a cake. What will be the total weight of flour and sugar for 5 such cakes.

Comparison (Multiplication and Division)

- A farmer has 7 ducks. He has 5 times as many chickens as ducks. How many chickens and ducks does he have altogether?
- A farmer has 45 chickens. He has 5 times as many chickens as ducks. How many ducks does he have?
- A farmer has 8 ducks. He has 6 times as many chickens as ducks. How many more chickens than ducks does he have?
- A farmer has 28 more chickens than ducks. He has 8 times as many chickens as ducks. How many ducks does he have?
- A farmer has a total of 56 chickens and ducks. He has 7 times as many chickens as ducks. How many ducks does he have?

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Part-Whole (Fractions)

- Salmah bought 24 flowers. $\frac{2}{3}$ of them were white. How many white flowers were there?
- Salmah bought some flowers. $\frac{2}{3}$ of them were white. If there were 18 white flowers, how many flowers did Salmah buy?

Comparison (Fractions)

- There are $\frac{3}{5}$ as many boys as girls. If there are 75 girls, how many boys are there?
- There are $\frac{2}{5}$ as many boys as girls. If there are 91 children altogether, how many girls are there?
- Each bottle holds 900 ml of water. A bucket holds 6 times as much water as a bottle. A glass holds $\frac{1}{5}$ as much water as a bottle. How much more does the bucket hold than 4 bottles?

Ratios

- Sarah and Mary shared a sum of money in the ratio of 4:3. Sarah received \$20. How much money did they share?
- The ratio of the number of pies to the number of cakes to the number of buns is 3 : 1 : 4. If there are 30 pies, how many buns are there?
- The ratio of the numbers of pies to the number of cakes to the number of buns is 2 : 4 : 3. If the total number of pies, cakes and buns is 99, how many more cakes than buns are there?
- The ratio of Jeff's weight to Coletton's weight to Hudson's weight is 8 : 5 : 4. If Coletton weighs 30 kg, find the total weight of the 3 boys.

Challenging Word Problems

- Max spent $\frac{3}{5}$ of his money in a shop and $\frac{1}{4}$ of the remainder in another shop. If he had \$90 left, how much money did he have at first?
- Two apples and a mango cost \$4. Two apples and three mangoes cost \$9. Find the cost of a mango.
- $\frac{1}{4}$ of the beads in a box are red. There are 24 more yellow beads than red beads. The remaining 76 beads are blue. How many beads are there altogether?
- 1 iPhone and 5 pair of Beats costs \$1900. 2 iPhones and 3 pair of Beats cost \$1700. How much does 1 pair of Beats cost? How much does 1 iPhone cost?