

4. There are 4 apples in each packet.



- (a) How many apples are there in n packets?

Number of packets	Total number of apples
1	$4 \times 1 = 4$
2	$4 \times 2 = 8$
3	$4 \times 3 = 12$
4	$4 \times 4 = 16$
5	$4 \times 5 = 20$
n	$4n$

We write $4 \times n$
as $4n$.



- (b) If $n = 8$, how many apples are there altogether?
(c) If $n = 11$, how many apples are there altogether?

5. There are 3 boxes of chicken wings. Each box contains p chicken wings.

- (a) Express the total number of chicken wings in terms of p .

$$\text{Total number of chicken wings} = 3p$$

$3p$ means $3 \times p$ or $p \times 3$.



- (b) If each box contains 7 chicken wings, how many chicken wings are there altogether?

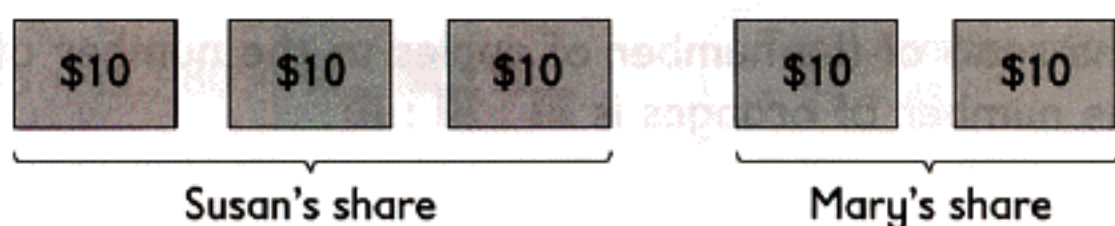
$$3p = 3 \times 7 = \blacksquare$$

There are \blacksquare chicken wings altogether.

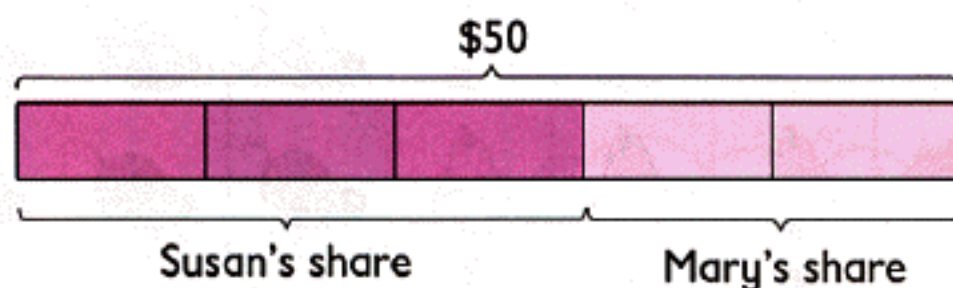
3 Ratio

1 Ratio and Fraction

Susan and Mary bought a present which cost \$50. Susan, being the elder sister, paid a bigger share of the cost.

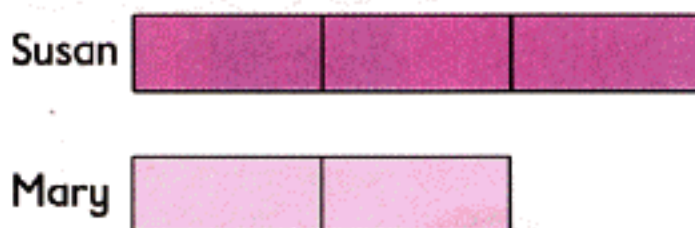


We can also show how Susan and Mary shared the cost like this:



Susan and Mary shared the cost unequally. Susan's share is 3 units. Mary's share is 2 units. Each unit is \$10.

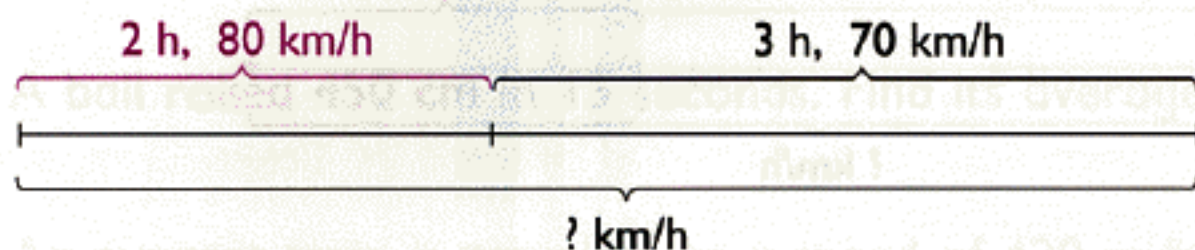
or like this:



The ratio of Susan's share to Mary's share is 3 : 2.

The ratio of Mary's share to Susan's share is ■ : ■.

13. A motorist traveled on a freeway for 2 hours at 80 km/h. He then traveled for another 3 hours at 70 km/h. Find his average speed for the whole trip.

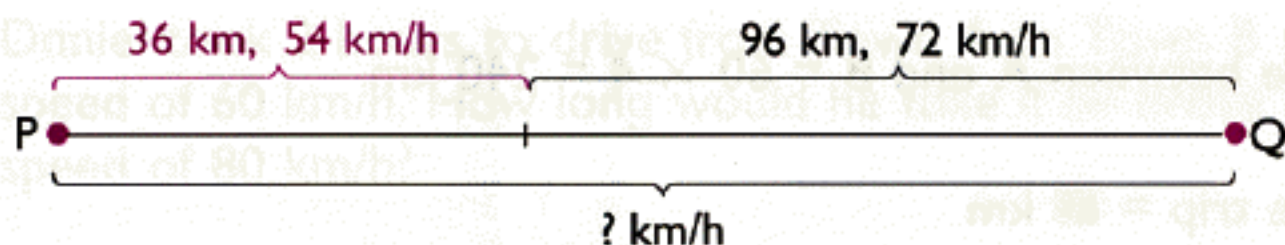


Total distance traveled = ■ km

Total time taken = ■ h

Average speed for the whole trip = ■ km/h

14. Brian drove from Town P to Town Q. He traveled the first 36 km at an average speed of 54 km/h. He traveled the remaining 96 km at an average speed of 72 km/h. Find his average speed for the whole trip.

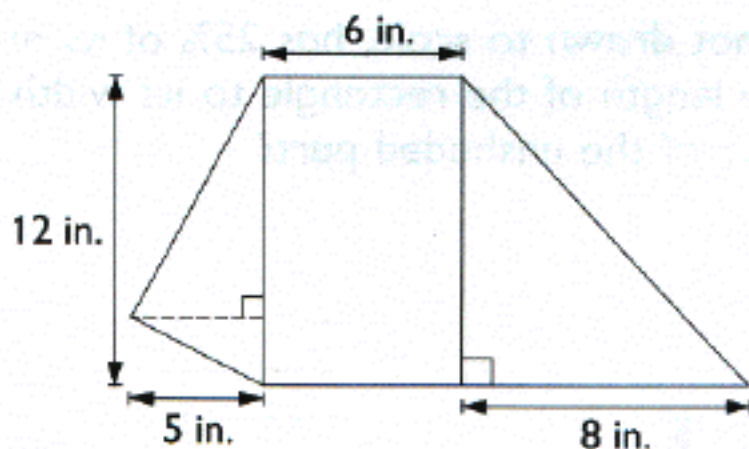


Total distance traveled = ■ km

Total time taken = ■ h

Average speed for the whole trip = ■ km/h

13. (a) Express 7.75 lb in pounds and ounces.
 (b) Express $2\frac{5}{6}$ ft in feet and inches.
 (c) Express 3.5 qt in quarts and cups.
14. What percentage of 2 ft is 6 in.?
15. Express 16 c as a percentage of 2 gal.
16. Draw a rhombus ABCD in which $AB = 2$ in. and $\angle BCD = 55^\circ$
17. John drove from Town A to Town B in 5 hours. His average speed for the first 3.5 hours was 65 mi/h. His average speed for the last 1.5 hours was 60 mi/h. What was the total distance he traveled?
18. The figure is made up of a rectangle and two triangles. Find the area of the figure.



19. How many cubic feet are there in a cubic yard?
20. Which one of the following lengths is the shortest?
 $3\frac{2}{3}$ yd, 11.75 ft, 122 in.
21. Adam is cycling at a speed of 8 mi/h.
 How many minutes will he take to cycle 6 mi?
22. Mrs. Johnson had 3 lb 7 oz of sugar.
 She used 4 oz sugar a day for 7 days. How much sugar was left?
 (Give the answer in pounds and ounces.)