

## PERCENTAGE OF NUMBER PROBLEMS 2C

Find the answers to these percentage of number word problems.

Can you spot the impossible/trick problem?

- 1) A shop sells 140 chocolate, vanilla and strawberry ice creams. 41% of the ice creams sold are vanilla, and 24% are strawberry. How many chocolate ice creams are sold?



- 2) An animal park has lions, tigers and zebras. 15% of the animals are lions and  $\frac{3}{5}$  of the animals are zebras. If there are 160 animals at the park, how many lions are there?

- 3) LA Galaxy have won 35% of their soccer matches, and drawn 9 of them. If they have played 40 matches, how many have they lost?



- 4) A car can travel 400 miles on a full tank of petrol. A more efficient car can travel 32% further. How many miles can it travel on a tank?

- 5) In a fruit survey, 300 children choose their favourite fruit out of apples, bananas and watermelon. 38% chose apples, 28% chose bananas. How many children chose watermelon?

- 6) In a traffic survey of 2000 vehicles: bikes, buses and cars were recorded.  $\frac{2}{5}$  of the vehicles were bikes and 17% were buses. How many cars were there?

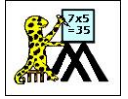
- 7) In Salamanderville, there is a 24% chance it will rain on any given day. How many days of rain would you expect it to be dry in 150 days?



- 8) Sally either walks, cycles or drives to work. She walks about 15% of the time. In 100 days, how many times would she cycle?

Did you manage to find the impossible problem?





## PERCENTAGE OF NUMBER PROBLEMS 2C ANSWERS

- 1) A shop sells 140 chocolate, vanilla and strawberry ice creams. 41% of the ice creams sold are vanilla, and 24% are strawberry. How many chocolate ice creams are sold?



**Answer: 49 chocolate ice-creams**

- 2) An animal park has lions, tigers and zebras. 15% of the animals are lions and  $\frac{3}{5}$  of the animals are zebras. If there are 160 animals at the park, how many lions are there?

**Answer: 24 lions**

- 3) LA Galaxy have won 35% of their soccer matches, and drawn 9 of them. If they have played 40 matches, how many have they lost?



**Answer: 13 matches**

- 4) A car can travel 400 miles on a full tank of petrol. A more efficient car can travel 32% further. How many miles can it travel on a tank?

**Answer: 528 miles**

- 5) In a fruit survey, 300 children choose their favourite fruit out of apples, bananas and watermelon. 38% chose apples, 28% chose bananas. How many children chose watermelon?

**Answer: 102 children**

- 6) In a traffic survey of 2000 vehicles: bikes, buses and cars were recorded.  $\frac{2}{5}$  of the vehicles were bikes and 17% were buses. How many cars were there?

**Answer: 860 cars**

- 7) In Salamanderville, there is a 24% chance it will rain on any given day. How many days of rain would you expect it to be dry in 150 days?



**Answer: 114 dry days**

- 8) Sally either walks, cycles or drives to work. She walks about 15% of the time. In 100 days, how many times would she cycle?

**Impossible question – we do not know how much of the time she drives.**