SPOT THE PERCENTAGE 2C

Work out the missing percentages in these problems. Remember to read carefully!
See if you can spot the impossible problem which cannot be answered!

1) A shop sells 200 chocolate, vanilla and strawberry ice creams in a day. 42 of the ice creams sold are vanilla, and ¼ are strawberry. What percentage are chocolate?

2) An animal park has lions, tigers and zebras. ⅖ of the animals are lions and ³⁄₁₀ of the animals are zebras. What percentage are tigers?

3) LA Galaxy have won ⁷⁄₂₀ of their soccer matches. What percentage have they lost?

4) Out of the 250 million cars on the road in the US, about ²⁄₅₀ are diesel. What percentage are not diesel?

5) In a fruit survey, 300 children choose their favourite fruit out of apples, bananas and watermelon. 150 chose apples and 90 chose bananas. What percentage chose watermelon?

6) In a traffic survey, some bikes, buses and cars were recorded. ⅘ of the vehicles were cars and 7% were buses. What percentage were bikes?
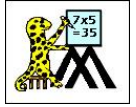
7) There is a 22% chance it will rain tomorrow and a ¼ chance of strong winds. What is the chance it will stay dry?

8) Sally either walks, cycles or drives to work. She walks about ³⁄₂₀ of the time and drives about 42% of the time. What percentage of the time does she cycle?

Did you manage to find the impossible problem?

SPOT THE PERCENTAGE 2C ANSWERS

1) A shop sells 200 chocolate, vanilla and strawberry ice creams in a day. 42 of the ice creams sold are vanilla, and ¼ are strawberry. What percentage are chocolate?

Answer: 54%

2) An animal park has lions, tigers and zebras. $\frac{2}{5}$ of the animals are lions and $\frac{3}{10}$ of the animals are zebras. What percentage are tigers?

Answer: 30%

3) LA Galaxy have won $\frac{7}{20}$ of their soccer matches. What percentage have they lost?

Impossible problem – we don't know how many are tied.

4) Out of the 250 million cars on the road in the US, about $\frac{2}{50}$ are diesel. What percentage are not diesel?

Answer: 96%

5) In a fruit survey, 300 children choose their favourite fruit out of apples, bananas and watermelon. 150 chose apples and 90 chose bananas. What percentage chose watermelon?

Answer: 20%

6) In a traffic survey, some bikes, buses and cars were recorded. $\frac{4}{5}$ of the vehicles were cars and 7% were buses. What percentage were bikes?

Answer: 13%

7) There is a 22% chance it will rain tomorrow and a ¼ chance of strong winds. What is the chance it will stay dry?

Answer: 78% (the wind is irrelevant information)

8) Sally either walks, cycles or drives to work. She walks about $\frac{3}{20}$ of the time and drives about 42% of the time. What percentage of the time does she cycle?

Answer: 43%