



Finding percentages: everyday examples - answers

1. 20% are at school. 20% is $\frac{1}{5}$ so that is $50 \div 5 =$ **10 people.**

50% is $\frac{1}{2}$. Half of 50 = **25 people live within 5 miles of the centre.**

2. 1,000 go through the airport.

25% is $\frac{1}{4}$ so $1,000 \div 4 =$ **250 are travelling for business.**

10% = $\frac{1}{10}$ so divide by 10 to find 10%.

$1,000 \div 10 =$ **100 are flying for the first time.**

20% = $\frac{1}{5}$ so divide by 5 to find 20%.

$1,000 \div 5 =$ **200 people travelling alone.**

There is another way to work it out. If you already worked out that 10% = 100 then 20% will be double this. So 20% will be 200 people.

30% = $\frac{3}{10}$. First find $\frac{1}{10}$.

$1,000 \div 10 = 100$ is one tenth. Multiply by 3 to find $\frac{3}{10}$.

So $3 \times 100 =$ **300 are on package deals.**

Again there is a shortcut. You already know that 10% is 100.

30% is three times 10%, so 30% will be three times 100, which is 300.

3. There are 30 days in April. To find 10% of the days divide by 10.

$30 \div 10 = 3$ days. So there were **3 days where the temperature was below freezing.**

20% is $\frac{1}{5}$ so divide by 5. $30 \div 5 =$ **6 days were warm and sunny.**

30% is $\frac{3}{10}$ so divide by 10 to find $\frac{1}{10}$ then multiply the answer by 3.

$30 \div 10 = 3$. $3 \times 3 =$ **9 days were wet.**

40% is $\frac{4}{10}$. Divide by 10 and multiply by 4. $\frac{1}{10}$ is 3 days (we worked this out already). So $40\% = 4 \times 3 =$ **12 days were overcast.**

60% of the days had changeable weather. 60% is $\frac{6}{10}$.

We know that $\frac{1}{10}$ is 3 days, so $\frac{6}{10}$ will be $6 \times 3 =$ **18 days.**

April has a lot of changeable weather.

