

Percentages of Numbers 3

'Percent' or '%' means 'out of every hundred'. When trying to determine the **percentage** one number represents of another, first look at the **larger** of the two. This should become the **denominator**. The **smaller** of the two should be the **numerator**.

For example: a score of 13 out of 18 on a test should be written as: $\frac{13}{18}$

This now needs to be converted to a **percentage** by turning it into a **fraction** but we are unable to use the previous two methods as the numbers involved are more awkward. In this case first **multiply** then **numerator** by **100**, then **divide** the **answer** by the **denominator**.

For example: $\frac{13}{18} = \frac{13 \times 100}{18} = \frac{1300}{18}$

So the answer would be $1300 \div 18 = 72\%$. Now try these using the same method. Some of your answers may have a decimal after division.

1. 14 out of 43 = _____

2. 7 out of 13 = _____

3. 29 out of 81 = _____

4. 36 out of 73 = _____

5. 47 out of 56 = _____

6. 11 out of 18 = _____

7. 25 out of 38 = _____

8. 23 out of 36 = _____

9. 15 out of 28 = _____

10. 23 out of 32 = _____

ANSWERS

1.	32.5%
2.	53.8%
3.	35.8%
4.	49.3%
5.	83.9%
6.	61.1%
7.	65.7%
8.	63.8%
9.	53.5%
10.	71.8%