Round all answers to an appropriate degree of accuracy unless specifically stated

1. Write as a single fraction in its simplest form

$$\frac{3x}{4y} \times \frac{8y^2}{9xz}$$

2. Find the equation of the line joining the points (-3,2) and (2,8).

3. A cake contains 23.5g of saturated fat after a reduction of 15%.

   How much saturated fat was in the cake before this reduction?

   Round your answer correct to 3 significant figures.

4. Factorise fully

$$4p^2 - 16$$

5a. Five bags are weighed and recorded here.

   Calculate the mean and standard deviation of this data.

   | 15 | 16 | 12 | 11 | 21 |

5b. Another 5 bags are weighted.

   Their mean is 17 and standard deviation is 1.97.

   Make **2 valid comments** about each set of bags.

6. Express $\dfrac{8}{\sqrt{10}}$ with a rational denominator in its simplest form.