

Essential Skills 14

The questions in this series of worksheets appear frequently.

These are the GIFTS you must take to succeed



Rationalising the Denominator (Non Calculator)

Write the following with a rational denominator in its simplest form:

1. $\frac{3}{\sqrt{5}}$

2. $\frac{4}{\sqrt{6}}$

3. $\frac{8}{\sqrt{2}}$

4. $\frac{1}{2\sqrt{7}}$

5. $\frac{5}{3\sqrt{3}}$

6. $\frac{4}{3\sqrt{6}}$

7. $\frac{\sqrt{2}}{3\sqrt{5}}$

8. $\frac{\sqrt{3}}{\sqrt{15}}$

9. $\frac{5}{\sqrt{8}}$ *Careful

10. $\frac{2}{\sqrt{48}}$ *Careful

APPLYING QUESTIONS



(1) Given that $f(x) = \frac{5}{4\sqrt{x}}$

Evaluate $f(15)$, writing your answer with a rational denominator in its simplest form.

(2) ***Non Calculator**

Calculate the mean and standard deviation of:

11 14 10 13 13 10 13

Write your answer with a rational denominator in its simplest form