YEAR 8 MATHEMATICS · NUMBER

Simplifying Fractions

Name _____ **Date** _____

Reduce each fraction to its simplest form. Find the **highest common factor (HCF)** of the numerator and denominator, then divide both by it.

A Show the HCF

Write the HCF and the simplest form.

1. $\frac{12}{18}$ HCF _____ Simplest form _____
2. $\frac{20}{28}$ HCF _____ Simplest form _____
3. $\frac{21}{35}$ HCF _____ Simplest form _____
4. $\frac{24}{40}$ HCF _____ Simplest form _____
5. $\frac{27}{36}$ HCF _____ Simplest form _____
6. $\frac{32}{48}$ HCF _____ Simplest form _____

B Have a go

Find the HCF before simplifying.

7. $\frac{48}{72}$ HCF _____ Simplest form _____
8. $\frac{54}{81}$ HCF _____ Simplest form _____
9. $\frac{63}{90}$ HCF _____ Simplest form _____
10. $\frac{70}{105}$ HCF _____ Simplest form _____
11. $\frac{72}{108}$ HCF _____ Simplest form _____
12. $\frac{84}{120}$ HCF _____ Simplest form _____
13. $\frac{96}{144}$ HCF _____ Simplest form _____
14. $\frac{105}{140}$ HCF _____ Simplest form _____

★ Challenge · Explain your thinking

15. $\frac{84}{126}$ Simplify the fraction. How can you check that your answer is in its simplest form?

_____

_____

☐ I have checked that my fractions cannot be simplified any further.