

Name _____

Write as single fractions

$\frac{1}{3} + \frac{2}{5}$	$\frac{3}{4} - \frac{2}{3}$	$\frac{2}{7} \times \frac{1}{3}$	$\frac{1}{4} \div \frac{2}{5}$

Simplify fully (and that means fully!)

$\frac{1}{\sqrt{2}}$	$\frac{1}{\sqrt{5}}$	$\frac{1}{2\sqrt{3}}$	$\frac{3}{2\sqrt{6}}$
$\frac{2}{\sqrt{7}}$	$\frac{2}{\sqrt{8}}$	$\frac{4}{2\sqrt{5}}$	$\frac{3x}{x\sqrt{10}}$

A range of questions!

Simplify fully (where possible)

$\sqrt{32}$	$\sqrt{3(1+\sqrt{3})}$	$\sqrt{2} \times \sqrt{6}$
$\sqrt{5} + \sqrt{45}$	$\sqrt{x} + \sqrt{x}$	$\sqrt{5} - \sqrt{5}$
$(2 - \sqrt{3})(1 + \sqrt{3})$	$\sqrt{24}$	$\sqrt{3} + \sqrt{12}$
$\sqrt{36}$	$5\sqrt{3} - \sqrt{27}$	$3(\sqrt{2} - 2)$
$\sqrt{3} \times \sqrt{3}$	$\sqrt{2} + \sqrt{8}$	$2\sqrt{2} \times 3\sqrt{2}$
$\sqrt{7} + \sqrt{7}$	$\sqrt{5} \times 3\sqrt{2}$	$\sqrt{27} + \sqrt{3}$
$2(3 - \sqrt{2})$	$2 + 1$	$4\sqrt{3} - \sqrt{27}$
$(\sqrt{2} + 1)(\sqrt{2} - 1)$	$\sqrt{14} \times \sqrt{7}$	$5\sqrt{2} \times \sqrt{2}$
$2\sqrt{2} + \sqrt{8} + \sqrt{2}$	$\sqrt{2}(3 - \sqrt{2})$	$\sqrt{32} - \sqrt{8}$
$6(\sqrt{2} + \sqrt{8})$	$\sqrt{25}$	$\sqrt{200} - 10\sqrt{2}$

Score out of 30 _____

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