RADICALS
in
SIMPLEST FORM

Simplify: a $\sqrt{3}\sqrt{5}$ b $\frac{\sqrt{18}}{\sqrt{3}}$ c $(2\sqrt{3})^2$

a $\sqrt{3}\sqrt{5}$
$= \sqrt{3 \times 5}$
$= \sqrt{15}$

b $\frac{\sqrt{18}}{\sqrt{3}}$
$= \sqrt{\frac{18}{3}}$
$= \sqrt{6}$

c $(2\sqrt{3})^2$
$= 2\sqrt{3} \times 2\sqrt{3}$
$= 4 \times 3$
$= 12$

Write in simplest form: a $\sqrt{20}$ b $\sqrt{98}$

a $\sqrt{20}$
$= \sqrt{4 \times 5}$
$= \sqrt{4}\sqrt{5}$
$= 2\sqrt{5}$

b $\sqrt{98}$
$= \sqrt{49 \times 2}$
$= \sqrt{49}\sqrt{2}$
$= 7\sqrt{2}$

1 Simplify:

a $(\sqrt{3})^2$ b $(\sqrt{7})^2$ c $(\sqrt{13})^2$ d $(\sqrt{24})^2$

e $\frac{\sqrt{14}}{\sqrt{7}}$ f $\frac{\sqrt{24}}{\sqrt{6}}$ g $\frac{\sqrt{18}}{\sqrt{2}}$ h $\frac{\sqrt{39}}{\sqrt{13}}$

i $(2\sqrt{2})^2$ j $(3\sqrt{5})^2$ k $(7\sqrt{2})^2$ l $(2\sqrt{7})^2$

LIVEWORKSHEETS

RADICALS
in
SIMPLEST FORM

2 Write in simplest form:

a $\sqrt{8}$ **b** $\sqrt{24}$ **c** $\sqrt{28}$ **d** $\sqrt{52}$

e $\sqrt{18}$ **f** $\sqrt{32}$ **g** $\sqrt{27}$ **h** $\sqrt{48}$

i $\sqrt{72}$ **j** $\sqrt{50}$ **k** $\sqrt{125}$ **l** $\sqrt{63}$

m $\sqrt{80}$ **n** $\sqrt{200}$ **o** $\sqrt{75}$ **p** $\sqrt{112}$

LIVEWORKSHEETS