1 Show that $\dfrac{10}{\sqrt{5}}$ can be written in the form $a\sqrt{b}$ where a and b are integers.

[2 marks]

2 Show that $\dfrac{18}{\sqrt{6}}$ can be written in the form $a\sqrt{b}$ where a and b are integers.

[2 marks]

3 Show that $\dfrac{70}{\sqrt{2}}$ can be written in the form $a\sqrt{b}$ where a and b are integers.

[2 marks]

4 Show that $\dfrac{20}{\sqrt{10}}$ can be written in the form $a\sqrt{b}$ where a and b are integers.

[2 marks]

$\dfrac{}{8}$

5 Show that $\dfrac{24}{\sqrt{15}}$ can be written in the form $\dfrac{a\sqrt{15}}{b}$ where a and b are integers.

[2 marks]

6 Show that $\dfrac{35}{4\sqrt{5}}$ can be written in the form $\dfrac{a\sqrt{5}}{b}$ where a and b are integers.

[2 marks]

7 Show that $\dfrac{1}{9\sqrt{2}}$ can be written in the form $\dfrac{\sqrt{2}}{a}$ where a and b are integers.

[2 marks]

8 Show that $\dfrac{60}{\sqrt{24}}$ can be written in the form $a\sqrt{b}$ where a and b are integers

[2 marks]

9 Show that $\dfrac{24}{\sqrt{45}}$ can be written in the form $\dfrac{a\sqrt{5}}{b}$ where a and b are integers.

[2 marks]

10 Show that $\dfrac{10 - \sqrt{32}}{\sqrt{2}}$ can be written in the form $a\sqrt{2} - b$

where a and b are integers.

[3 marks]

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11 Show that $\dfrac{\sqrt{12} + 9}{\sqrt{3}}$ can be written in the form $a + b\sqrt{3}$

where a and b are integers.

[3 marks]

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12 Show that $\dfrac{\sqrt{180} + 40}{\sqrt{20}}$ can be written in the form $a + b\sqrt{5}$

where a and b are integers.

[3 marks]

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19

Turn over ►

13 Show that $\left(\dfrac{1}{\sqrt{2}}\right)^5$ can be written in the form $\dfrac{\sqrt{2}}{a}$ where a is an integer.

[3 marks]

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14 Show that $\dfrac{24}{\sqrt{6}} + \sqrt{54}$ can be written in the form $k\sqrt{6}$ where k is an integer.

[3 marks]

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15 Show that $\dfrac{42}{\sqrt{18}} + \sqrt{200}$ can be written in the form $k\sqrt{6}$ where k is an integer.

[4 marks]

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16 Show that $\dfrac{21}{\sqrt{3}} + \dfrac{12}{\sqrt{48}}$ can be written in the form $k\sqrt{3}$ where k is an integer.

[3 marks]

17 Show that $20 \times \sqrt{3\dfrac{1}{5}}$ can be written in the form $k\sqrt{5}$ where k is an integer.

[4 marks]

18 Show that $\dfrac{\sqrt{3} + \sqrt{5}}{\sqrt{2}} - \dfrac{5}{\sqrt{10}}$ can be written in the form $\dfrac{\sqrt{6}}{a}$ where a is an integer.

[4 marks]

$\dfrac{}{21}$