

1 $8300 = 100 \times 83$

Circle the number that is closest in value to $\sqrt{8300}$

[1 mark]

19

90

830

900

Answer _____

3 Show that $\frac{\sqrt{150} - \sqrt{6}}{\sqrt{2} \times \sqrt{3}}$ simplifies to an integer.

[3 marks]

4 Simplify $\sqrt{5}a + \sqrt{5}a$

Circle your answer.

[1 mark]

$$5a$$

$$5a^2$$

$$2\sqrt{5}a$$

$$\sqrt{10}a$$

5 $a = \sqrt{2}$ and $b = \sqrt{18}$

Match each expression to its value.

One has been done for you.

[3 marks]

a^2	2
$a + b$	3
ab	6
$\frac{b}{a}$	36
	$4\sqrt{2}$
	$10\sqrt{20}$

Work out

Give your answer in the form $\frac{a\sqrt{5}}{b}$ where a and b are integers.

[4 marks]

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins or other markings on the paper.

Answer _____