

Add two surds where you need to simplify

Maths

Mr Chan



Add two surds where you need to simplify

1. Match up each number card on the left with the simplified surd on the right.

$$\sqrt{8}$$

$$\sqrt{50}$$

$$\sqrt{24}$$

$$4\sqrt{27}$$

$$2\sqrt{12}$$

$$5\sqrt{2}$$

$$2\sqrt{2}$$

$$4\sqrt{3}$$

$$12\sqrt{3}$$

$$2\sqrt{6}$$

2. Simplify.

a) $\sqrt{8} + 3\sqrt{2}$

b) $2\sqrt{3} + 5\sqrt{12}$

c) $2\sqrt{3} + 5\sqrt{27}$

d) $6\sqrt{8} + \sqrt{50}$

e) $\sqrt{63} + 2\sqrt{28}$

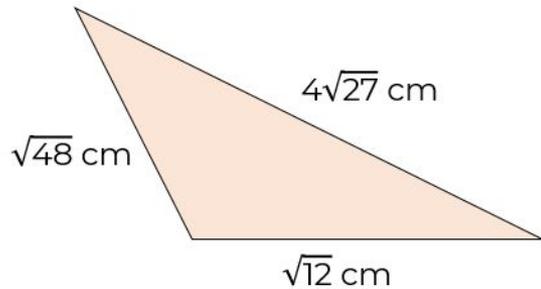
f) $6\sqrt{27} + 2\sqrt{75}$



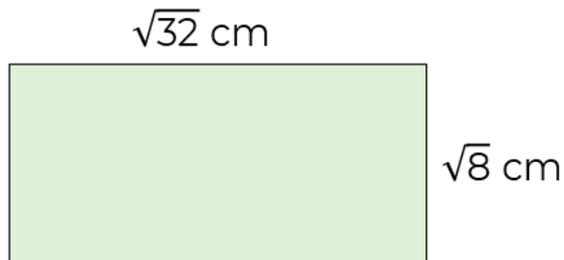
Add two surds where you need to simplify

3. Work out the perimeter of each shape.

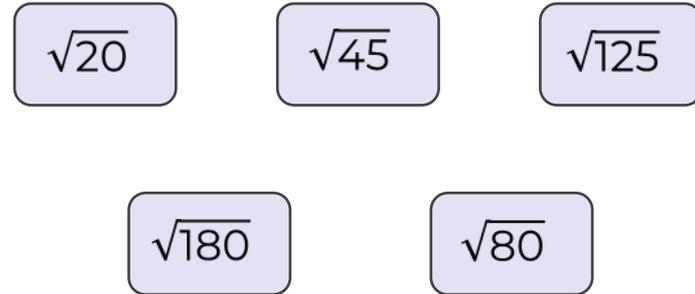
a)



b)



4. Here are some number cards.



Choose three cards which will give a total of $9\sqrt{5}$

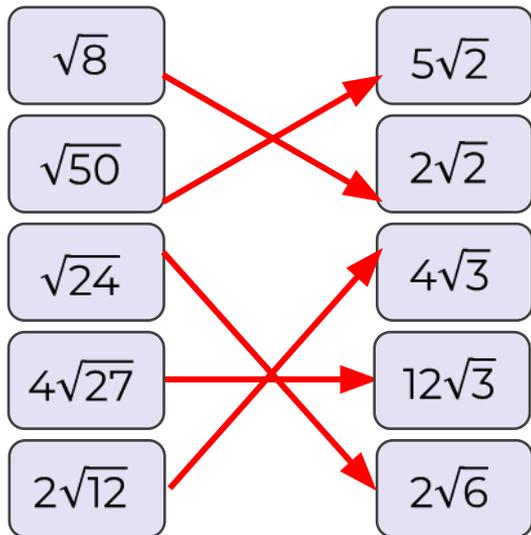


Answers



Add two surds where you need to simplify

1. Match up each number card on the left with the simplified surd on the right.



2. Simplify

a) $\sqrt{8} + 3\sqrt{2} = 5\sqrt{2}$

b) $2\sqrt{3} + 5\sqrt{12} = 12\sqrt{3}$

c) $2\sqrt{3} + 5\sqrt{27} = 17\sqrt{3}$

d) $6\sqrt{8} + \sqrt{50} = 17\sqrt{2}$

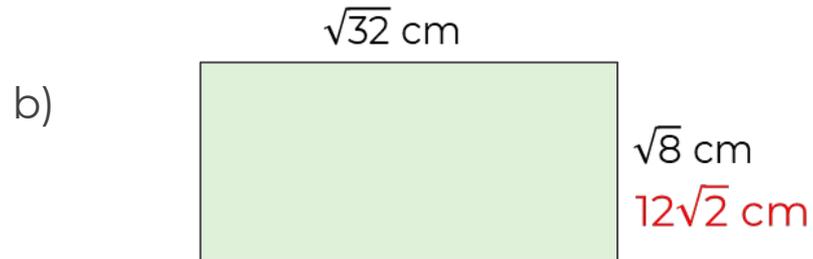
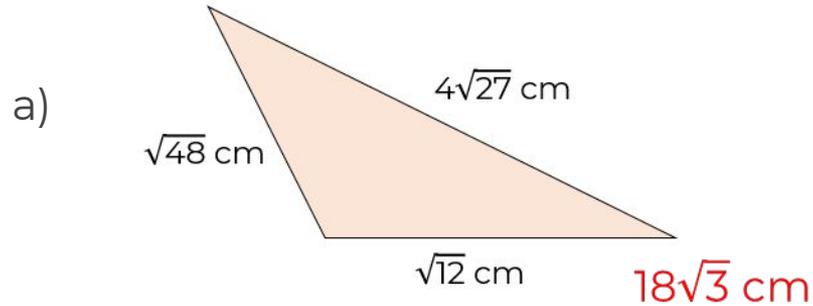
e) $\sqrt{63} + 2\sqrt{28} = 7\sqrt{7}$

f) $6\sqrt{27} + 2\sqrt{75} = 28\sqrt{3}$

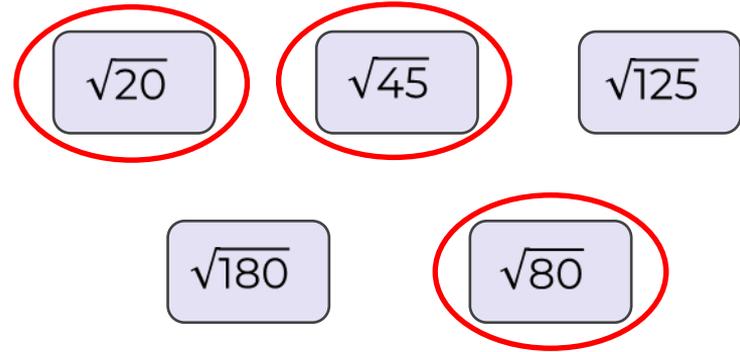


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3. Work out the perimeter of each shape.



4. Here are some number cards.



Choose three cards which will give a total of $9\sqrt{5}$

