Maths

Mr Chan



1. Simplify.

a) √8

b) $\sqrt{12}$

c) √50

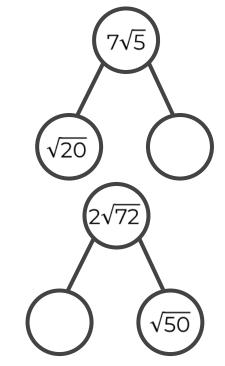
2. Simplify fully.

a) $5\sqrt{2} - \sqrt{8}$

- b) $\sqrt{48} \sqrt{12}$
- c) $\sqrt{50} \sqrt{32}$

3. Complete the missing numbers in

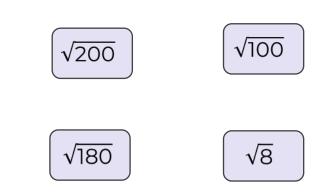
these part whole models.



4. The width of a rectangle is $\sqrt{108}$ cm shorter than its length.

√300 c ? cm

Work out the width of the rectangle.



- a) Which card will simplify to $6\sqrt{5}$?
- b) Which card is not a surd?

5. Here are 4 number cards.

c) Work out the range for the cards.

Answers

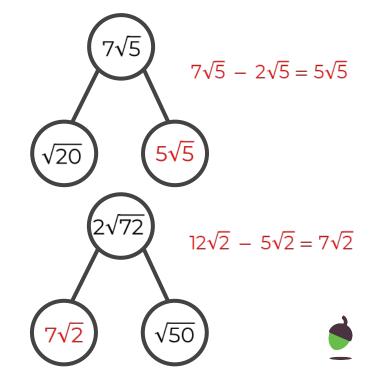
- 1. Simplify.
- a) $\sqrt{8} = 2\sqrt{2}$

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

c) $\sqrt{50} = 5\sqrt{2}$

- 2. Simplify fully.
- a) $5\sqrt{2} \sqrt{8} = 5\sqrt{2} 2\sqrt{2} = 3\sqrt{2}$
- b) $\sqrt{48} \sqrt{12} = 4\sqrt{3} 2\sqrt{3} = 2\sqrt{3}$
- c) $\sqrt{50} \sqrt{32} = 5\sqrt{2} 4\sqrt{2} = \sqrt{2}$

2. Complete the missing numbers in these part whole models.

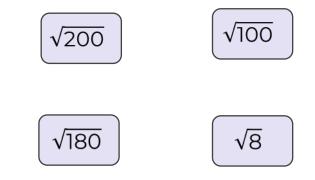


3. The width of a rectangle is $\sqrt{108}$ cm shorter than its length.

√300 c ? cm

Work out the width of the rectangle. $\sqrt{300} - \sqrt{108} = 10\sqrt{3} - 6\sqrt{3} = 4\sqrt{3}$ cm





- a) Which card will simplify to $6\sqrt{5}$? $\sqrt{180}$
- b) Which card is not a surd? $\sqrt{100}$
- c) Work out the range for the cards $8\sqrt{2}$