

Dividing Surds (2)



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1. State whether each is true or false.

a) $\sqrt{14} \div \sqrt{7} = \sqrt{2}$

b) $14\sqrt{14} \div 7\sqrt{2} = 2\sqrt{7}$

c) $10\sqrt{5} \div 2\sqrt{5} = 5$

d) $2\sqrt{5} \div \sqrt{5} = 5$

e) $10\sqrt{14} \div 5\sqrt{7} = 2\sqrt{2}$

Write the correct answer for any false statements.

2. Simplify

a) $\frac{4\sqrt{6}}{2\sqrt{2}}$

b) $\frac{8\sqrt{6}}{2\sqrt{2}}$

c) $\frac{8\sqrt{6}}{2\sqrt{3}}$

d) $\frac{16\sqrt{6}}{2\sqrt{3}}$

e) $\frac{16\sqrt{6}}{2\sqrt{3}} \div \sqrt{2}$



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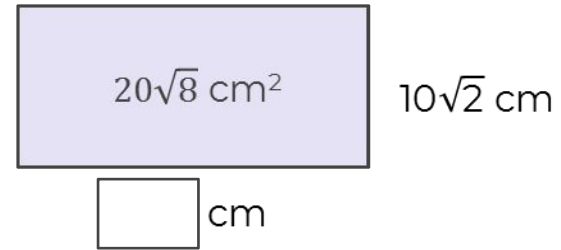
3. Simplify $\frac{12\sqrt{12}}{4\sqrt{2}}$

4. Find the missing numbers.

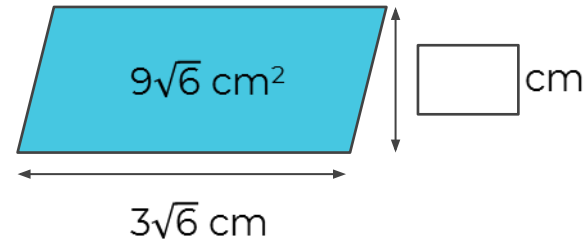
a) $\frac{\square\sqrt{6}}{5\sqrt{2}} = 2\sqrt{\square} = \sqrt{\square}$

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

5. Find the missing length.



6. Find the missing height.



Answers



Dividing Surds (2)

1. State whether each is true or false.

a) $\sqrt{14} \div \sqrt{7} = \sqrt{2}$ T

b) $14\sqrt{14} \div 7\sqrt{2} = 2\sqrt{7}$ T

c) $10\sqrt{5} \div 2\sqrt{5} = 5$ T

d) $2\sqrt{5} \div \sqrt{5} = 5$ F

e) $10\sqrt{14} \div 5\sqrt{7} = 2\sqrt{2}$ T

2. Simplify

a) $\frac{4\sqrt{6}}{2\sqrt{2}} = 2\sqrt{3}$

b) $\frac{8\sqrt{6}}{2\sqrt{2}} = 4\sqrt{3}$

c) $\frac{8\sqrt{6}}{2\sqrt{3}} = 4\sqrt{2}$

d) $\frac{16\sqrt{6}}{2\sqrt{3}} = 8\sqrt{2}$

e) $\frac{16\sqrt{6}}{2\sqrt{3}} \div \sqrt{2} = 8$

Write the correct answer for any false statements.



Dividing Surds (2)

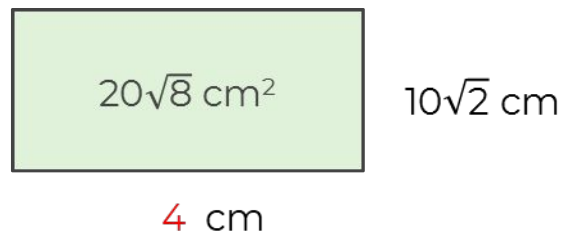
3. $\frac{12\sqrt{12}}{4\sqrt{2}} = 3\sqrt{6}$ or $\sqrt{54}$

4. Find the missing numbers:

a) $\frac{10\sqrt{6}}{5\sqrt{2}} = 2\sqrt{3} = \sqrt{12}$

b) $\frac{12\sqrt{10}}{3\sqrt{5}} = \sqrt{32} = 4\sqrt{2}$

5. Find the missing length.



6. Find the missing height.

