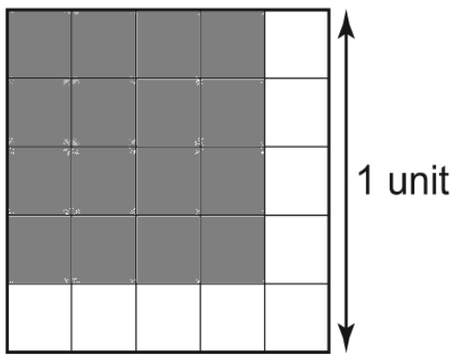
EXAM REVIEW GRADE 9

Unit 1 – Square Roots and Surface Area

Name: _____ Class: _____

1. Explain how to use the diagram to determine the value of the square roots.

$\sqrt{0.64}$



2. Which numbers below are perfect squares? Explain how you know?

$\frac{16}{144}$ 0.049 $\frac{5}{20}$

3. Calculate the number whose square root is 2.3.

4. Calculate the number whose square root is $\frac{4}{11}$.

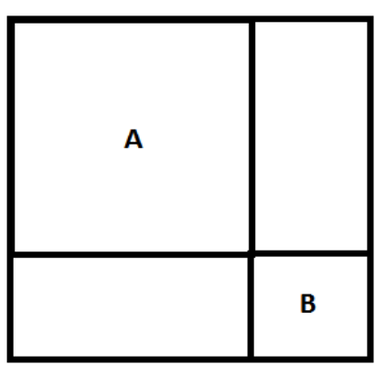
5. Determine the value of each square root.

a) $\sqrt{\frac{169}{81}}$

b) $\sqrt{0.0016}$

c) $\sqrt{4.41}$

6. A square theatre is divided up into 4 sections. Sections A and B are also squares. Section A has an area of 16 m^2 and Section B has an area of 9 m^2. Determine the area of the combined four sections.



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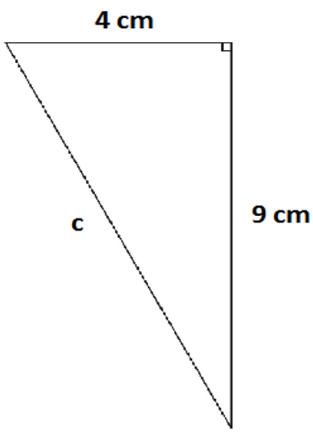
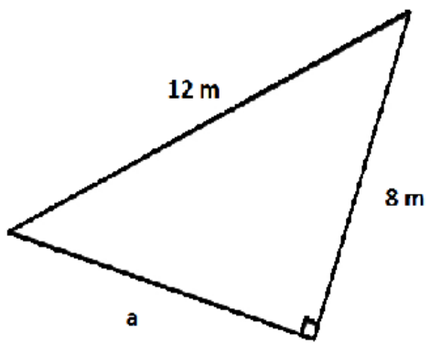
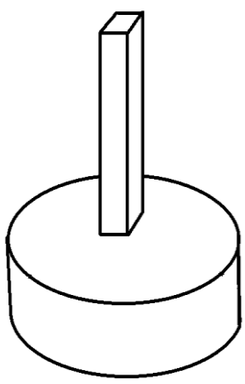
7. Determine the unknown length **c** to the nearest tenth of a unit.





8. Determine the unknown length **a** to the nearest tenth of a unit.

9. The rectangular prism has the dimensions 3 cm x 3cm x 18 cm. The cylinder has a diameter of 14 cm and a height of 6 cm. Determine the surface area of this composite object hammer. Include the bottom, but not the overlap.



10. Determine the surface area of this composite object. <u>Include the bottom</u> but not the overlaps.