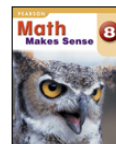


Warm Up Grade 8

Nov. 23, 2017



1) Find the answer each to each to 1 decimal point, (Use calculators But show symbols)

a) Square root of 49

$$\sqrt{49} = 7$$

b) Square of 36

$$36^2 = 1296$$

2) Prove that 36 is perfect using factors.

$$\begin{array}{l} 1 \times 36 \\ 2 \times 18 \\ 3 \times 12 \\ 4 \times 9 \\ 6 \times 6 \leftarrow \text{repeated} \end{array}$$

OR

$$\downarrow 1, 2, 3, 4, 6, 9, 12, 18, 36$$

9 factors

↓ odd # of factors so not perfect

3) Determine if the following form a right triangle

a) 9, 8, $\sqrt{17}$

$$\begin{array}{l} c^2 \} a^2 + b^2 \\ 9^2 \} (\sqrt{17})^2 + 8^2 \\ 81 \} 17 + 64 \\ \leftarrow \text{Same so form Right } \Delta \end{array}$$

b) 7, 16, 17

$$\begin{array}{l} c^2 \} a^2 + b^2 \\ 17^2 \} 16^2 + 7^2 \\ 289 \} 256 + 49 \\ \leftarrow 305 \text{ different so not right } \Delta \end{array}$$

4) Estimate each off the following (Show work)

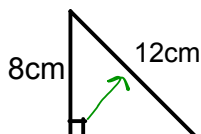
a) $\sqrt{70}$

$$\begin{array}{l} \sqrt{64} \quad \sqrt{81} \\ \downarrow \quad \downarrow \\ 8 \quad 9 \\ \approx 8.3 \end{array}$$

b) $\sqrt{105}$

$$\begin{array}{l} \sqrt{100} \quad \sqrt{121} \\ \downarrow \quad \downarrow \\ 10 \quad 11 \\ \approx 10.2 \end{array}$$

5) Find the missing length to one decimal place (Use calculators BUT show all work)



$$\begin{aligned} a^2 &= c^2 - b^2 \\ &= (12\text{cm})^2 - (8\text{cm})^2 \\ &= 144\text{cm}^2 - 64\text{cm}^2 \end{aligned}$$

$$a^2 = 80\text{cm}^2$$

$$a = \sqrt{80\text{cm}^2}$$

$$a \approx 8.9\text{cm}$$

Kahoots

Quiz Wednesday

<https://kahoot.com/welcomeback/>

watch first

<https://www.bing.com/videos/search?q=pythagorean+theorem+video&&view=detail&mid=4A4CAD23DF31372B2C264A4CAD23DF31372B2C26&FORM=VRDGAR>



12 minutes

already watched in
class

More on square roots

<https://create.kahoot.it/#quiz/a024ca86-f369-486c-9288-4bc620cc9253>



<https://create.kahoot.it/#quiz/f9400133-17af-46f4-9233-8b98b4f2ade3>



<https://create.kahoot.it/#quiz/38ba47fb-3e57-42a5-8170-fed62529a9d1>



<https://create.kahoot.it/#quiz/4b8edc58-a705-42d2-bb75-8e1db78a239c>



Science

<https://create.kahoot.it/#quiz/bd064ecf-e93c-4fa2-84a3-9f04fa6184d1>



<https://create.kahoot.it/#quiz/1c617d6c-dda7-4d3a-9f5f-dd834acb83b5>



For fun

Famous People

<https://create.kahoot.it/#quiz/5f498f09-3551-483d-9c82-b6f5b5bb63ff>



Slogans

<https://create.kahoot.it/#quiz/8017b813-dd68-4a81-8222-cb01859a0eac>



Sport Team Logos

<https://create.kahoot.it/#quiz/3a5de7a1-7e70-4cd6-9325-fa75505a9447>

