

## Warm Up Grade 8

Friday, Nov. 25, 2016 Similar to test question

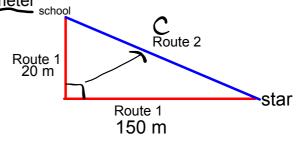


1) Jack and Ted have competing paving companies. The school wants to hire the one of the companies to pave a path to school. They have two choices;

T<u>ed</u> travels along route 1 but charges \$20 per meter Jack travels along route 2 but charges \$22 per meter school



Route 1 = 20m + 150m b) How much will Jack Charge? (Requires more work than part a)



$$C_5 = 9300$$

$$C_5 = 93200 + 400$$

$$C_5 = 05 + 650$$

151.3m x 22/m = \$3328.60

c) Who has the better deal for the school?

Jack charges less \$3328.60 3400.00 Save \$71.40



## Warm Up Grade 8



1) Jack and Ted have competing paving companies. The school wants to hire the one of the companies to pave a path to school. They have two choices;

Ted travels along route 1 but charges \$20 per meter Jack travels along route 2 but charges \$22 per meter



a) How much does Ted charge?

20 m + 150 m = 170 m  

$$\frac{x $20}{$3400}$$
 Ted charges \$3400

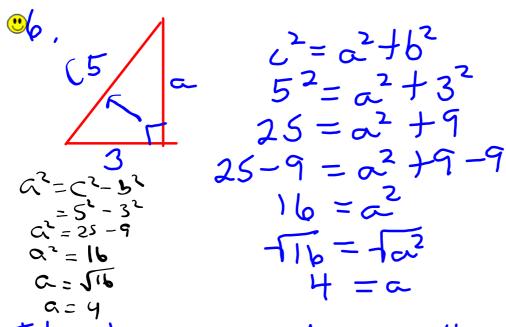
b) How much will Jack Charge? (Requires more work than part a)

Need to find route 2 ... THE Hypotenuse

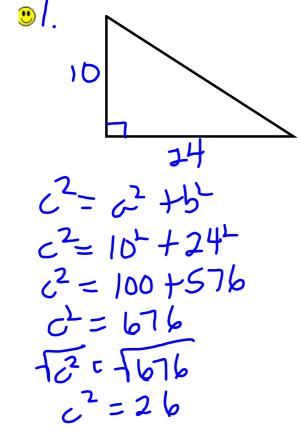
$$c^2 = a^2 + b^2$$
 $c^2 = (150 \text{ m})^2 + (20 \text{ m})^2$ 
 $c^2 = 22 500 \text{ m}^2 + 400 \text{ m}^2$ 
 $c^2 = 22 900 \text{ m}^2$ 
 $c = \sqrt{22 900 \text{ m}^2}$ 
 $c = 151.3 \text{ m}$ 

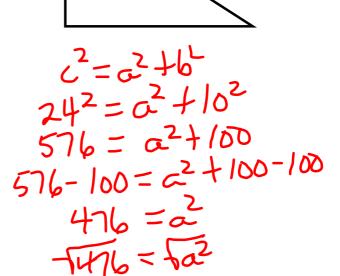
c) Who has the better deal for the school?

Jack is the better deal. He charges \$71.40 cheaper.



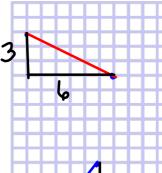
The ladder reaches up 4 m.

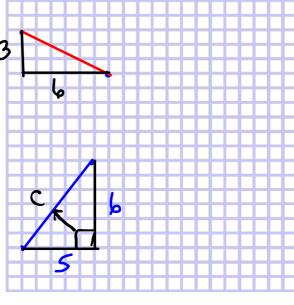




21.8=0

by 2 answers are possible became it doesn't say if 24 is one leg or the hypotenuse.

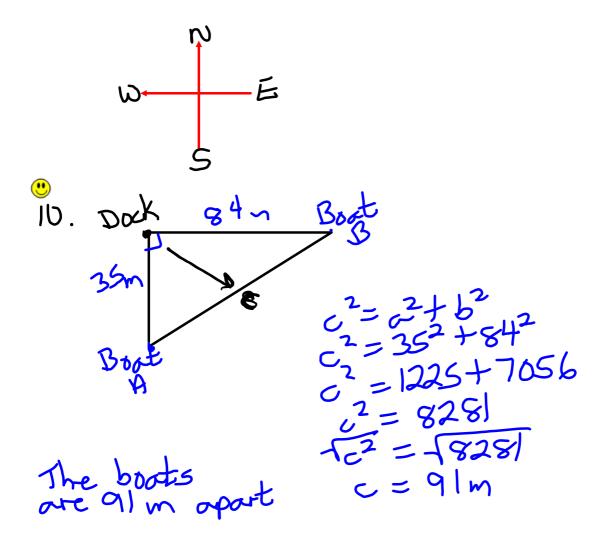


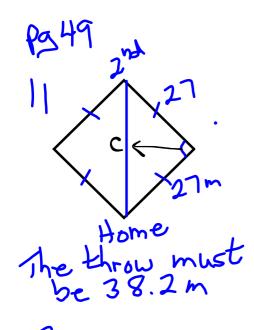


2=52+66 0=25+36 2=61

 $c^{2} = a^{2} + b^{2}$   $c^{2} = 25^{2} + 60^{2}$   $c^{2} = 625 + 3600$   $c^{2} = 4225$   $c^{2} = 4225$  c = 65

The diagonal should be 65 cm





$$c^{2} = a^{2} + b^{2}$$

$$c^{2} = 27^{2} + 27^{2}$$

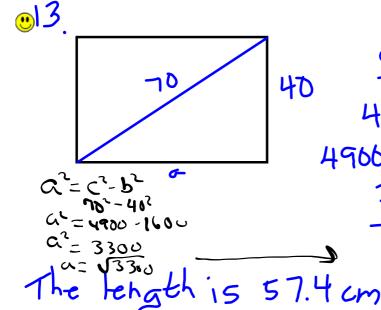
$$c^{2} = 27^{2} + 729$$

$$c^{2} = 1458$$

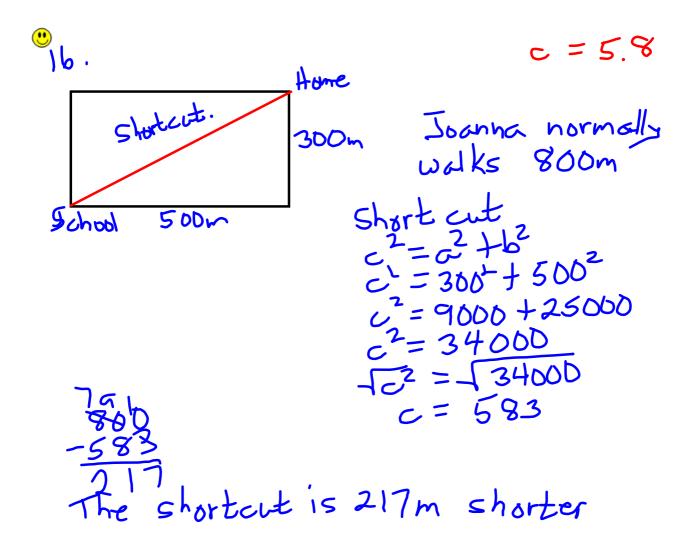
$$f^{2} = 47458$$

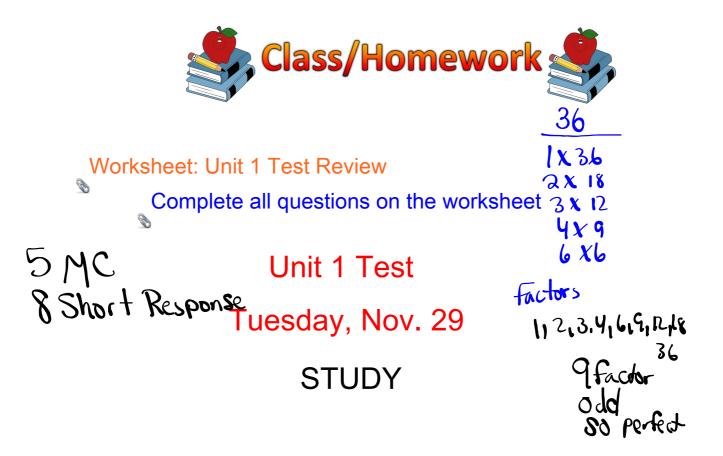
$$c^{2} = 47458$$

$$c^{2} = 38.2m$$



14. To get from A to B, you move right. 4 and up3.
To get from A to F, you move down 3 and left 4, so F is the same distance from A as Bis.





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